Skissesøknader til senter for forsvarsevne, sikkerhet og beredskap (alfabetisk rekkefølge – prosjektansvarlig institusjon)

Dersom innsendere av skissen finner feil eller mangler i beskrivelsen kan dere ta kontakt med hd@forskningsradet.no eller ibo@forskningsradet.no.

E-post til prosjekteier finner dere bakerst i dokumentet.

Innhold

365024 – LEAPS - The Awakening State. Law/Economy and Security/Preparedness

Prosjektleder og prosjektansvarlig: Marius Emberland (BI Norwegian Business School – Department of Law and Governance)

Sammendrag: The state – the Leviathan whose first task is to protect the community – has grown accustomed to peacetime; it must be roused now as Norway faces unprecedented security threats. Norway's first National Security Strategy (2025), Meld. St. 9 (2024–2025), and NOU 2023:17 call on the whole of society – and business and industry – to take part. Economic security is a main priority and the arena where threats increasingly play out: sanctions, export controls, acquisitions and investments, control over supply chains and critical infrastructure, and financial stability. LEAPS builds national capacity to understand and counter threats and strengthen economic resilience and total preparedness, taking security law as axis and economic dimensions as core.

Aktører (tentativt): BI Norwegian Business School – Department of Law and Governance. National and international partner, organisations in business, academia, government, armed forces.

364987 – CAMPER – Centre for Advanced Manufacturing and Preparedness for Emergency Response

Prosjektleder og prosjektansvarlig: Bendik Sagsveen (Forsvarets forskningsinstitutt)

Sammendrag: Norway's defence capability and societal resilience are critically dependent on global supply chains that are increasingly vulnerable. CAMPER addresses this challenge directly by establishing a national, civil–military capability for rapid, local production of critical components and spare parts using advanced manufacturing. The centre uniquely integrates materials science, manufacturing, digital infrastructure and qualification into a coherent system for crisis response. Unlike fragmented initiatives, CAMPER connects research, industry, public sector actors and end users in operationally relevant demonstrators and scenario-based environments. It will deliver validated production routes, digital decision systems and governance frameworks that enable safe and rapid deployment in crisis and war. CAMPER is explicitly designed to support and create synergies with other centres funded under the call, by providing shared capabilities and solutions for critical supply of components across sectors. Through this role, the centre will function as a national platform for supply-secure manufacturing, enabling both standalone impact and strong integration with complementary initiatives.

Aktører (tentativt): FFI, IFE, FLO, Elkem, Kongsberg Defence & Aerospace, Norwegian AM Cluster, Blumags, Future Materials, Dynatec SMV, Oshaug Metall, Kongsberg Technology, Cluster, Norsk Titanium

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364997 – Ground Unmanned Autonomy for Resilient Defence and Society

Prosjektleder og prosjektansvarlig: Kim Mathiassen (Forsvarets forskningsinstitutt)

Sammendrag: GUARDS will establish a national research centre for ground-based unmanned autonomy that strengthens Norway's defence capability and economic security, with societal resilience as a dual-use payoff. The centre will mature defence-grade autonomy, modular architectures and secure communication into robust, affordable ground-robotics kits for Arctic and GNSS-denied conditions. Flagship defence uses include route-clearance, perimeter security and Arctic operations. The same building blocks transfer to civil tasks such as autonomous sensing for avalanches and landslides and inspection of energy and transport infrastructure. Operating as a living lab, GUARDS lets research, defence, industry and civil protection partners co-design and field-test solutions in Arctic terrain and digital twins. By building on existing defence investments and test sites, it offers an efficient path to a more capable total defence and a Norwegian niche in dual-use ground robotics.

Aktører (tentativt): Forsvarets Forskningsinstitutt (FFI), Universitetet i Oslo (UiO), Norges miljø- og biovitenskapelige universitet (NMBU), Royal Military Academy (RMA), Łukasiewicz Przemysłowy Instytut Automatyki, i Pomiarów (PIAP), Forsvaret/ Heimevernet, Forsvaret/Hærens skole for ubemannede systemer, Forsvaret/Combat Lab

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364999 – Advanced Resilience Centre against CBRNE threats

Prosjektleder og prosjektansvarlig: Helene Rønning (Forsvarets Forskningsinstitutt)

Sammendrag: Emerging and disruptive technologies such as biotechnology and artificial intelligence have unlocked pandoras box regarding novel biological threats, while ongoing wars and conflicts have reintroduced chemical weapons use by state actors. Mixed with disinformation and hybrid warfare this reveals the complexity of the current threat landscape. The proposed centre will strengthen defence capability, national resilience and preparedness against Chemical, Biological, Radiological, Nuclear and Explosive (CBRNE) threats through coordinated cross-sectorial research and innovation, focused on four research areas: i) Knowledge preparedness, ii) Impact of emerging and disruptive technologies, iii) Dispersion modelling and aerosol knowledge and iv) Detection, surveillance and situational awareness of emerging threats. The centre’s impact and relevance are achieved through close collaboration with both military and civilian stakeholders throughout the CBRNE domain.

Aktører (tentativt): Norwegian Defence Research Establishment (FFI), Norwegian Institute of Public Health (NIPH), The Norwegian National Unit for CBRNE-Medicine, (The Norwegian CBRNE Centre), Norwegian Veterinary Institute (VI), Norwegian Directorate for Civil Protection (DSB), Norwegian Radiation and Nuclear Safety Authority (DSA)

365025 – Center for Cryptography in Critical Infrastructure

Prosjektleder og prosjektansvarlig: Martin Strand (Forsvarets Forskningsinstitutt)

Sammendrag: Senteret dekker de kritiske nasjonale funksjonene kraft, finans og telekommunikasjon sammen med den militære sektoren. Hovedformålet med senteret er å levere kryptografi tilpasset kravene og behovene for funksjonalitet og sikkerhet innad i og på tvers av de forskjellige sektorene, samt styrke sikkerhetssamarbeidet dem imellom. Senteret vil sørge for overføring av kritisk erfaring, kunnskap og kompetanse mellom sektorene, anspore den riktige forskningen, og bidra til at ny kryptografisk forskning nyttiggjøres på en relevant og hensiktsmessig måte. Forskningen vil fokusere på å løfte blikket fra dagens tradisjonelle sikkerhetsbilde med stort fokus på konfidensialitet, og også inkludere essensielle faktorer som tilgjengelighet og integritet. Det sikrer at de kritiske nasjonale funksjonene og tjenestene er pålitelige i møte med avanserte motstandere, men også naturhendelser som flom, som kan påvirke stabiliteten av kritiske tjenester.

Aktører (tentativt): FFI, NTNU, Simula UiB, NSM, NR, Thales Norge, EIDEL, Finans Norge, Telenor, Kongsberg Defence & Aerospace

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365072 – DARIIA – Defence Advanced Research and Integrated Innovation Accelerator

Prosjektleder og prosjektansvarlig: Shahzad Ali (Forsvarets Forskningsinstitutt)

Sammendrag: DARIIA foreslås som en permanent forsknings- og innovasjonsarena på Kjeller der operative brukere fra Forsvaret, allierte og partnerland definerer kritiske kapabilitetsgap for tverrfaglige forskningsteam. Teamene blir mobilisert fra akademiske og sivile forskningsmiljøer sammen med Kjeller-instituttene og forsvarssektoren, for å frembringe banebrytende løsninger gjennom forskning. Senteret er inspirert av DARPA og etablerer en operasjonsmodell bygget på høy grad av autonomi for programansvarlige, målrettet samvirke på tvers av fagdomener og en institusjonalisert vilje til å ta kalkulert risiko for å realisere disruptive kapabiliteter.

Aktører (tentativt): FFI, IFE, NORSAR, NILU, Justervesenet, Kjeller Innovasjon, (KI), UiO (Matnat), Kunnskapsbyen Lillestrøm (KL), STENDR, Digital Norway, Nordic Semiconductor, Brave1, UKR, KONGSBERG, Forsvaret, Forsvarets Høyskole (FHS), Forsvarsmateriell, Massachusetts Institute of Technology – Mission Innovation X (MIT), NAMMO, The Ukrainian, Council of Defence Industry – Consolidated voice of the, Ukrainian defence industry (UCDI), Dignitas (UKR)

364948 – Centre for New Norwegian Security (CNNS)

Prosjektleder og prosjektansvarlig: Øystein Tunsjø (Forsvarets høgskole FHS)

Sammendrag: The Centre for New Norwegian Security (CNNS) examines how Norway's defence and economic security strategies adapt to geopolitical shifts in international politics. Norwegian authorities have responded to these new challenges by declaring a hedging strategy. However, the specifics of this strategy remain unexplored, not least its political, military and economic implications. The CNNS will develop new knowledge along three dimensions. First, it will examine hedging and how it differs from more well-known approaches based on alliance theory, such as balancing and band wagoning as well as neutrality. Second, it will explore what hedging entails more specifically for Norway's defence strategy and policy. Third, it will study hedging as a potential strategy to ensure Norway's economic growth in a world shaped by a new economic security paradigm where economic dependencies and value chains are weaponised.

Aktører (tentativt): Norwegian Institute for Defence Studies (IFS)/Norwegian Defence University College (NDUC), NTNU, UiS, UiT, Georgetown University, IISS The International Institute for Strategic Studies, London, Vrije Universiteit Brussel, Forsvarsstaben, Forsvarets operative hovedkvarter, Forsvarets logistikkorganisasjon, Nasjonale sikkerhetsmyndigheter, Telenor, Rederiforbundet, Innovasjon Norge, Statsforvalter.

364949 – Centre for deterrence studies

Prosjektleder og prosjektansvarlig: Kjell Inge Bjerga (Forsvarets høgskole FHS)

Sammendrag: The Centre for Deterrence Studies will analyse Norway and other European states' turn to deterrence as a key security strategy. Consisting of an interdisciplinary team of leading international researchers, we will examine how shifts in the strategic environment are affecting deterrence dynamics, and how the acquisition of more offensive weapons is creating new opportunities and risks, including for escalation management. We will also explore how deterrence strategies are affected by defence industrial resilience, and whether the turn to deterrence is perceived as legitimate in the population. The centre will be a hub connecting researchers, politicians, the defence industry, and the Norwegian Armed Forces, providing advice on how to develop Norway's deterrence strategy, both nationally and within a broader allied framework.

Aktører (tentativt): Norwegian Institute for Defence Studies (IFS)/Norwegian Defence University College (NDUC), Royal Norwegian Air Force Academy (RNoAFA), Norwegian Intelligence School (NORIS), Institute for Archeology, Conservation and History (IAKF), Oslo University, Institute for Social Research (ISF), MIT, Security Studies Program (MIT SSP), Norwegian Joint Headquarters, Norwegian Joint Headquarters, J3-5 targeting, Norwegian Defence Staff, Department of Operations, Combined Air Operations Centre Bodø, Association of Norwegian Defence and Security Industries, NATO's Net Assessment section

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364988 – Center for Warfighting Functions

Prosjektleder og prosjektansvarlig: William Mitchell (Forsvarets høgskole FHS)

Sammendrag: The Centre for Warfighting Functions (CWF) is a groundbreaking initiative in Norwegian defence, creating the nation's first hub dedicated to integrating cutting-edge research, education, and innovation in military operations. By uniting military and civilian expertise, the CWF pioneers new approaches to command, control, intelligence, logistics, and information, keeping Norway at the forefront of defence knowledge. With intelligence-driven operations central to its mission, the Centre will identify strengths and weaknesses in both friendly and adversary innovations and speed the adoption of transformative technologies. As a catalyst for total defence integration, innovation sharing, and cross-sector collaboration, the CWF will redefine how Norway prepares for future challenges—shaping the next generation of military education and strengthening national security through advanced capabilities and skills.

Aktører (tentativt): Norwegian Institute for Defence Studies (IFS)/Norwegian Defence University College (NDUC)

365018 – Senter for påvirkning og motstandskraft (SPoM)

Prosjektleder og prosjektansvarlig: Helge Danielsen (Forsvarets høgskole FHS)

Sammendrag: Senter for påvirkning og motstandskraft skal styrke Norges forsvarsevne og samfunnets motstandsdyktighet gjennom ny forskningsbasert kunnskap om sikkerhetstruende påvirkning og sammensatte trusler. Senteret undersøker hvilke trusler Norge møter, hvordan de oppdages, forstås og kan håndteres. Gjennom utvikling av et unikt datasett over påvirkningsaktivitet rettet mot Norge og norske interesser, analyser av demokratiske og rettslige dilemmaer, og lærdommer fra Ukraina og nære partnerland, skal senteret bygge et sterkere empirisk og analytisk kunnskapsgrunnlag på et felt preget av fragmentert kunnskap, uklare begreper og begrenset datagrunnlag. Slik skal senteret styrke norsk trussel- og situasjonsforståelse og gi forsvarssektoren, sivile myndigheter og andre brukermiljøer bedre beslutningsstøtte gjennom forskning, scenarioer, læringsarenaer, undervisning, aktiv formidling og brukerrettede analyser.

Aktører (tentativt): Institutt for forsvarsstudier/Forsvarets høgskole, Universitetet i Tromsø, Universitetet i Bergen, King's College London, Institute for Conflict Studies and Analysis of Russia, Etterretningsskolen, Stabsskolen, Forsvarets forskningsinstitutt, Försvarshögskolan, Stockholms Universitet, Justis- og beredskapsdep., Forsvaret (STRATKOM), Faktisk.no, Finnmark politidistrikt

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365053 – Democracy Shield Norway: Centre for Cognitive Defence and Democratic Resilience

Prosjektleder og prosjektansvarlig: Silje Susanne Alvestad (Forsvarets høgskole FHS)

Sammendrag: EU betrakter KI-drevet desinformasjon som en av vår tids største trusler mot demokratiet, og NATO anser det som den mest alvorlige trusselen mot alliansens sikkerhet. World Economic Forum legger til at det er en type trussel som kan utløse og forsterke andre trusler og kriser. Målet med slik KI drevet desinformasjon er ofte å så tvil og mistillit og endre folks atferd. Vi trenger å forsvare oss mot denne kognitive krigføringen, og på den bakgrunnen foreslår vi et forskningssenter for kognitivt forsvar i Norge, med følgende overordnede mål: å etablere kognitivt forsvar som fagfelt nasjonalt, å identifisere og analysere trusler i informasjonsdomenet og å bidra til å styrke befolkningens motstandsdyktighet mot slike trusler. Gjennom tverrfaglig og tverrsektorielt samarbeid vil vi produsere ny kunnskap og løsninger som vil bli tatt i bruk i praksis gjennom undervisning og opplæring, kommunikasjon og informasjon, yrkesutøvelse og politikkutforming.

Aktører (tentativt): Institutt for forsvarsstudier/Forsvarets høgskole, FFI, Universitetet i Oslo, SINTEF Digital, Handelshøyskolen BI, FHS, FOH, Forsvarets Avdeling, for strategisk kommunikasjon, Forsvarets KI-senter, Seksjon for sikkerhet og motstand mot sammensatte, trusler/Avdeling for sikkerhet og sivilt-militært, samarbeid/FD, FST, HV, Hæren, DSB, Kripos, POD, NSM, PST, Etterretningstjenesten, NRK, Medietilsynet, HK-dir, VG, TENK, Midlaier, Telenor

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365028 – NOR-DEF: Norwegian Centre for Coastal Seabed Intelligence for Defence, Security and Co-existence

Prosjektleder og prosjektansvarlig: Frode Bendiksen Vikebø (Havforskningsinstituttet)

Sammendrag: Norge er en kystnasjon med verdens nest lengste kystlinje. Forvaltning og bruk under ulike miljø og geopolitiske situasjoner, både for sivilsamfunn og forsvar, krever detaljert kunnskap om dybdeforhold, geologi, fysisk miljø og naturtyper. Evne til å forebygge og håndtere kriser og hendelser samtidig som man opprettholder viktige verdier og funksjoner må styrkes med kunnskap og verktøy. Dette gjelder både kunnskapsbasert planlegging og styringssystemer som er robust for fremtidige forhold som avviker vesentlig fra i dag. HI, NGU og Kartverket utfører marin grunnkartlegging med midler fra NFD med standardiserte metoder og produkter. Imidlertid er det behov for å skalere opp tempo og berike produkter slik at de harmonerer bedre med kommunenes presserende behov til arealplanlegging og samtidig støtter totalforsvar og forsvar. NOR-DEF vil samarbeide med relevante aktører for å utvikle og fase inn metoder, som droner og kunstig intelligens, for mer relevant og raskere datafangst til støtte for Norges totalforsvar.

Aktører (tentativt): Havforskningsinstituttet, Kartverket, NGU, ytterligere offentlige og private aktører

365068 – Norsk koordineringssenter for blodberedskap (Nokblod)

Prosjektleder og prosjektansvarlig: Torunn Oveland Apelseth (Helse Bergen HF)

Sammendrag: Tilgang til blod og blodprodukter er en grunnleggende forutsetning for å opprettholde helsetjenester, redde liv og sikre operativ evne i hele krisespekteret og en kritisk samfunnsfunksjon i totalforsvaret. Senterets mål er å styrke samfunnets motstandsdyktighet og forsvarsevne gjennom forskning på robust blodforsyning og blodberedskap. Senteret skal samle helseforetak, blodbanker, Forsvaret, akademia, myndigheter og næringsliv i et nasjonalt forsknings- og innovasjonssamarbeid om robust blodforsyning, forsyningssikkerhet og sivil-militær beredskap. Merverdien er etableringen av et samlet nasjonalt kunnskaps- og innovasjonsmiljø innen et område som er kritisk for både helseberedskap og forsvarsevne. Senteret vil bygge videre på eksisterende initiativ, herunder Nokblod og Forsvarets sanitetskapasiteter, og styrke norsk deltakelse i nordiske, europeiske og NATO-relaterte samarbeid.

Aktører (tentativt): Helse Bergen, Sjøforsvaret/Kystvakten, Norsk Polarinstitutt, Alta kommune, Norsk Frysetørking, Norner Research, Air Reach

365062 – North Atlantic Center for Autonomous Maritime Systems The North Atlantic TRL 6–9 Centre for Autonomous Maritime Systems

Prosjektleder og prosjektansvarlig: Knut Jørgen Hauge (HNSP Holding AS)

Sammendrag: NACAMS:

- Skal utvikles som et ledende internasjonalt forsknings- og testsenter som legger til rette for TRL 6–9 for autonome maritime systemer og resilient infrastruktur.
- Vil tilby en testingsarena for forskningsmiljøer, industri og operative brukere, for å gjøre løsninger klare for operativ bruk, industrialisering og kommersialisering.
- Kompletterer forskningsmiljøer i TRL 1-6 ved å tilby infrastruktur og testmiljøer.
- Utvikles som et ledende europeisk miljø for forskning, industri og operative brukere. Vil bidra til å bringe teknologi raskere fra demonstrert konsept til operativ kapasitet.
- Disponerer maritim infrastruktur i nærhet til dype fjorder, verdensledende subsea kompetanse, etablerte industrimiljøer og operative brukere (Haakonsvern Orlogstasjon).

Aktører (tentativt): Hilleren Navy Supply Park (HNSP), Den norske ambassade i London, Omega Subsea, GMC Maritime Group, Sweco Defence

364974 – Nordic Battery Cold-Climate Center

Prosjektleder og prosjektansvarlig: Hanne Flåten Andersen (Institutt for energiteknikk IFE)

Sammendrag: The armed forces have an urgent need for locally produced, high-quality, high energy density batteries for drone and other military applications. This initiative proposes a Nordic research and innovation hub focused on the development of pouch cell batteries with high voltage cathode chemistry (LMNO or NMC) and Si–C anodes, optimized for stable performance in both cold and standard conditions. The centre aims to strengthen Nordic expertise, supply chain and industrial capacity in battery development and manufacturing, while enabling cost-effective, scalable drone systems for military and dual-use applications. By bringing together partners across the full value chain—from raw materials to system integration in drones —it will address key challenges in battery performance, durability, and supply security. The centre will accelerate technology deployment and strengthen Nordic defence capability, preparedness, technological sovereignty and industrial value creation.

Aktører (tentativt): IFE, FFI, FOI, Cenate, Vianode, Nordic Lyte, Bergen Carbon, Solutions, Nordic Batteries, Schive, Kongsberg, Discovery, Teledyne

364994 – Forskningssenter for nasjonal atomberedskap og nukleære hendelser

Prosjektleder og prosjektansvarlig: Georgios N. Kalantzopoulos (Institutt for energiteknikk IFE)

Sammendrag: Senteret skal styrke Norges evne til å forebygge, oppdage og håndtere tilsiktede kjernefysiske eller nukleære hendelser som kan true nasjonal sikkerhet, kritisk infrastruktur og samfunnsfunksjoner. Senteret ledes av IFE i samarbeid med FFI, NORSAR og NILU, med tett kobling til DSA og nasjonale beredskapsaktører. Forskningen skal utvikle ny kunnskap, teknologi og beslutningsstøtte innen trusselvurdering, deteksjon, overvåkning, beskyttelse av kritisk infrastruktur, krisehåndtering og samfunnsrobusthet. En sentral styrke er IFEs nye laboratoriebygg på Kjeller, som gir en unik nasjonal forskningsinfrastruktur for analyse av radionuklider, sensorteknologi og beredskapsrelatert forskning. Senteret skal bidra til økt forsvarsevne, styrket atomberedskap, bedre samhandling mellom sivile og militære aktører og langsiktig kompetansebygging innen et område av økende strategisk betydning for Norge og Europa.

Aktører (tentativt): Institutt for energiteknikk, Forsvarets, forskningsinstitutt, NORSAR, NILU, Beredskapseiere

364995 – Nasjonalt senter for kritiske materialer og forsyningsberedskap (KRITISK)

Prosjektleder og prosjektansvarlig: Duygu Yilmaz (Institutt for energiteknikk IFE)

Sammendrag: Senteret skal styrke Norges forsvarsevne, økonomiske sikkerhet og forsyningsberedskap gjennom forskning på de kritiske materialene på NATOs liste inkl. verdikjeder. Bakgrunnen er geopolitiske spenninger og avhengighet av enkeltland, særlig Kina, for materialer som er nødvendige for forsvar, energi og kritisk infrastruktur. Senteret skal analysere verdikjeden fra mineralressurser til ferdige materialer samt identifisere strategiske sårbarheter. Forskningen skal omfatte kritikalitet, norske mineralressurser, resirkulering, forsvarsrelaterte verdikjeder og materialkvalifisering. Målet er å redusere avhengigheter, styrke forsyningssikkerheten og strategisk autonomi. Senteret skal samle forskning, industri, myndigheter og forsvarssektor og levere kunnskapsgrunnlag for beredskap og sikkerhetspolitikk. Gjennom teknologiutvikling og kompetansebygging skal senteret bidra til robuste verdikjeder og styrket motstandskraft i totalforsvaret.

Aktører (tentativt): IFE, UiS, USN, NGU, Forsvarets høgskole, Næringslivets, sikkerhetsråd, Rare Earth Norway, Nordic Mining, Vianode, Rana Critical Minerals, GreenRoc, KA Rasmussen

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365038 – Situasjonsforståelse, beslutningsstøtte og operasjonalisering av tiltak i krise

Prosjektleder og prosjektansvarlig: Michael Louka (Institutt for energiteknikk IFE)

Sammendrag: Senterets mål er å styrke situasjonsforståelse, beslutningsstøtte og operasjonalisering av tiltak i forsvar og totalberedskap, slik at militære og sivile aktører kan ta raskere, riktigere og mer samordnede beslutninger som kan iverksettes i møte med kriser, sammensatte trusler og væpnet konflikt. Dagens og fremtidens kriser kjennetegnes av høy usikkerhet og rask eskalering og ikke homogene informasjonsmengder med varierende kvalitet. Til tross for betydelige teknologiske fremskritt, viser både militære erfaringer og sivile kriser at mangelfull situasjonsforståelse og svak beslutningsstøtte ofte er den kritiske flaskehalsen – ikke mangel på data. Senteret, lokalisert rundt IFE sine laboratorier i Halden, vil utvikle løsninger for bedre samhandling mellom Forsvaret, sivile myndigheter og kommuner, og beslutningsstøtte som fungerer over tid, under stress og knapphet. Dette vil gi løsninger som kan øves på i forkant, og som fungerer under både krise og normalisering.

Aktører (tentativt): Institutt for energiteknikk, Forsvarets forskningsinstitutt, Smart Innovation, NORSAR

365040 – Proactive Energy Systems for Autonomous Operation in Crisis

Prosjektleder og prosjektansvarlig: Tine Uberg Nærland (Institutt for energiteknikk IFE)

Sammendrag: Future crises will increasingly involve disruption of energy systems, requiring both civil society and defence to operate without reliable access to central infrastructure. At the same time, energy sector actors will prioritise restoring infrastructure rather than supporting end users. This centre addresses this operational gap by developing concepts and solutions for autonomous energy systems, secure operation and coordinated use of limited energy resources across sectors. Building on results, partnerships and validated concepts from ongoing and completed European Defence Fund (EDF) projects, the centre will further develop, adapt and operationalise solutions for Norwegian conditions and cross-sector use. Through integrated research on energy demand, scenario-based planning, system robustness and civil–military coordination, the centre will enable sustained operation of critical functions under varying crisis conditions and durations.

Aktører (tentativt): Institutt for energiteknikk, Forsvarets forskningsinstitutt, Forsvarsaktører, NORCE, NGI, Energiaktører

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365030 – Resilience, Economics, Security, Organisation, Leadership and Value creation

Prosjektleder og prosjektansvarlig: Kurt R. Brekke (Norges handelshøyskole NHH)

Sammendrag: Norway is undertaking the most significant strengthening of defence capability in decades. Yet increased spending does not automatically translate into stronger defence capability. Building and sustaining capability requires effective governance, mobilisation of industry and innovation, and a resilient economy under geopolitical uncertainty. RESOLVE studies, through long-term cross-sector collaboration, how defence capability is created and sustained through three interconnected challenges: how governance, accounting, control and procurement convert resources into operational capability; how firms, alliances, and innovation ecosystems strengthen defence and dual-use capacity; and how economic policy and institutions support long-term security and resilience. By combining expertise from FFI, NHH, SSB, SSE, SNF and user partners, RESOLVE provides research-based knowledge for policy and practice to strengthen Norway's defence capability, preparedness and economic security.

Aktører (tentativt): Norwegian School of Economics (NHH), Norwegian Defence Research Establishment (FFI), Statistics Norway (SSB), Stockholm School of Economics, Center for Security, and Resilience (SSE), Centre for Applied Research at NHH (SNF)

365031 – Centre for Research and Higher Education in National Security

Prosjektleder og prosjektansvarlig: Liv Langfeldt (NIFU Nordic Institute for Studies in Innovation, Science and Education)

Sammendrag: Centre for research and higher education in national security (READY) studies how research and higher education contribute to increased defence capability and enhanced economic security. Research and higher education (R&HE) are central to realising the Norwegian National Security Strategy. However, effectively mobilising R&HE for national security faces a number of difficult challenges, such as security regulations and knowledge gaps that hinder the military from making full use of civil sector competencies, and finding the right balance openness and security in international cooperation. To address this challenge, READY will examine drivers and barriers to effective and responsible civil–military and international cooperation and explore, test and disseminate solutions that can improve such cooperation. The goal is to promote more concerted and strategic thinking around the role of research and higher education in national security.

Aktører (tentativt): NIFU, TIK Centre/University of Oslo, Department of Education/ University of Oslo, NUPI Norwegian Institute of International Affairs, PRIO Peace Research Institute Oslo, FFI Norwegian Defence Research Establishment, University of Southern Denmark, NORCE Norwegian Research Institute, University of South-East Norway, Directorate for Higher Education and Skills

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365063 – Senter for menneskelig yteevne og beredskap, MYB.

Prosjektleder og prosjektansvarlig: Aage Radmann (Norges idrettshøgskole NIH)

Sammendrag: Norges idrettshøgskole (NIH) søker om å etablere et nasjonalt forskningssenter rettet mot individets forutsetninger for beredskapsevne og motstandskraft: Senter for menneskelig yteevne og beredskap (MYB). Senteret vil utvikle forskningsbasert kunnskap forankret i idrettsvitenskap langs tre hovedlinjer: 1) menneskelig yteevne og operativ beredskap, 2) friluftslivsferdigheter som grunnlag for utvikling av befolkningens beredskapsevne, og 3) differensierte og tilpassede tilnærminger på tvers av kjønn, alder, etnisitet, funksjonsevne og geografi. NIH besitter sterke fagmiljøer på disse områdene og vil samle disse i en koordinert innsats, forankret i NIHs strategi 2026–2030, og gjennom tett samarbeid med Forsvaret, beredskapsorganisasjoner, kommuner og utdanningsmyndigheter, sikre at forskningen omsettes i praksis og policy.

Aktører (tentativt): Norges idrettshøgskole NIH

365076 – Strategic Preparedness Reserve Initiative for National Groundwater

Prosjektleder og prosjektansvarlig: Helen Kristine French (Norwegian University of Life Sciences NMBU)

Sammendrag: Despite Norway's exceptional offshore subsurface expertise, groundwater resources remain poorly understood and largely absent from preparedness planning. Water supplies in densely populated areas are heavily dependent on surface water sources, vulnerable to cyberattacks, CBRN-weapons, contamination and extreme weather. The centre will establish a scientific foundation for groundwater as an emergency drinking water reserve. By combining national subsurface databases and Ruden AS's unique 40-year archive of geophysical and hydrogeological data with artificial intelligence and groundwater modelling, the centre will identify strategic groundwater reserves. Collaboration between research institutions, municipalities, public authorities and industry, will strengthen defence capability, societal resilience and water security in accordance with Norway's National Security Strategy protecting Norway's territory and independence.

Aktører (tentativt): Norwegian University of Life Sciences (NMBU), University of Oslo (UiO) Institutt for Geofag, Kristiansund Municipality, Ruden AS, McGill University (Canada), Forsvarsbygg

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365057 – Motstandskraft gjennom sikker mat- og vannforsyning i krise og krig

Prosjektleder og prosjektansvarlig: Bent Magne Dreyer (NOFIMA AS)

Sammendrag: Sikker mat- og vannforsyning er en av NATOs syv grunnleggende forventninger og avgjørende for både sivile funksjoner og militær operativ evne. Økende geopolitisk uro, klimaendringer og komplekse verdikjeder gjør forsyningssystemene mer sårbare. Vi foreslår etablering av et nasjonalt forskningssenter for samfunnssikkerhet og beredskap som utvikler kunnskap, metoder og løsninger for å gjøre forsyningssystemer for mat og vann mindre sårbare. Senteret vil bidra til å styrke samfunnets motstandskraft og sikre leveranser av mat og vann til sivile og militære behov også under alvorlige kriser. Senteret samler et bredt, flerfaglig og komplementært konsortium. Arbeidet skjer i målrettet samspill med Forsvaret, myndigheter og næringsaktører, som skal gi beslutningsstøtte for prioritering av tiltak i beredskapsarbeidet. Et samarbeid med nordiske fagmiljøer vil styrke dette arbeidet ytterligere.

Aktører (tentativt): Nofima, FFI, TØI, HI, NIBIO, NIVA, LUKE, UiT

364979 – National Preparedness Centre (NPC)

Prosjektleder og prosjektansvarlig: Patrycja Antosz (NORCE Research AS)

Sammendrag: The National Preparedness Centre will be Norway's leading research centre for societal security and preparedness. It will conduct beyond state-of-the-art applied research and co-develop the empirically grounded knowledge, digital solutions and collaborative workflows that make Norwegian society more resilient to the full spectrum of future and emerging crises: natural, man made and compound. The Centre will act as a national hub that continuously translates research into actionable knowledge across the civil and military sides of Norway's total defence.

Aktører (tentativt): NORCE Research, The Norwegian Geotechnical Institute (NGI), University of Stavanger (UiS), Stockholm University (SU), KS, Smart Innovation Norway (SIN), The, Norwegian Communications Authority (Nkom), The County Governor of Vestland (CGV), SWECO, Norwegian Armed Forces: Defence Staff (DS), Norwegian Defence Logistics Organisation (NDLO)

365021 – Earth Observation for Situational Awareness

Prosjektleder og prosjektansvarlig: Rune Storvold (NORCE Research AS)

Sammendrag: We propose a national dual use innovation centre that will strengthen Norway’s defence capability, security, safety and preparedness through improved situational awareness in the North based on Earth observation from satellites, aircraft, vessels, ground sensors and drones combined with models and digital twins. For the Armed Forces, the centre can provide better multi domain awareness, faster detection of deviations, support for the protection of bases and critical infrastructure, and more robust decision support in crisis and conflict situations. For the civil society the centre will develop methods and technologies for robust, rapid and verifiable information sharing in the event of natural hazards, industrial accidents, pollution incidents, disruptions to critical infrastructure and complex or hybrid threats.

Aktører (tentativt): NORCE Research, Jordobservasjon AS, UiT Arctic University of Norway, Meteorologisk institutt, Kongsberg Satellite Services

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365060 – Norwegian Centre for Coastal Observing and Decision Support for Defence, Security and Preparedness (nCOD)

Prosjektleder og prosjektansvarlig: Arvid Nøttveit (NORCE Research AS)

Sammendrag: The proposed centre will develop research-based methods, technologies and decision-support tools for monitoring, understanding and predicting conditions in Norwegian coastal and nearshore waters of direct relevance to defence capability, security and preparedness. The centre will focus on integrated coastal observing systems, multi-

source data fusion, ocean and metocean modelling, AI supported information extraction, and operational decision support for coastal access monitoring, subsea critical infrastructure protection, and resilient maritime operations. The centre will combine civilian and defence-relevant knowledge environments and link research organisations with public authorities, defence users and industry. Its ambition is to establish a nationally coordinating research centre that strengthens Norway's knowledge base, improves situational awareness in strategically important coastal areas, and enables more effective civil-military collaboration in domains where data, sensing infrastructure and modelling capabilities are shared.

Aktører (tentativt): NORCE, Sjøforsvaret

365078 – Centre for Preparedness through Resilient Sensing and Critical Infrastructure Security

Prosjektleder og prosjektansvarlig: Volker Oye (Stiftelsen NORSAR)

Sammendrag: PRESENSE-NOR will strengthen Norway's preparedness, security and economic resilience by developing research-based methods for resilient sensing, rapid event attribution and decision support for critical infrastructure. The centre will combine seismology, distributed acoustic sensing, fibre-optic infrastructure, multi-hazard analysis and user-oriented preparedness tools. The centre will work primarily with non-classified civil and operational data that can be used on day-to-day basis and exercised on, while building capabilities relevant to more severe security and defence-related scenarios like scenario 7. Use cases include explosions, cable cuts, landslides, accidents, rail and road disruption, energy infrastructure incidents and cascading multi-risk events. PRESENSE-NOR will connect research organisations, infrastructure owners, public preparedness actors and technology providers to create measurable improvements in prevention, detection, response and resilience.

Aktører (tentativt): NORSAR, University of Oslo, Oslo Beredskapsetaten, FFI, Ruter, Alcatel Submarine Networks, Akershus Universitetssykehus, UNIS, Sikt, PRIO, Kunnskapsbyen Lillestrøm, Kjeller Innovasjon, other national and international research and user partners

365032 – Supply chain Hub for Integrated and Enduring Logistics for Defence, Security and Preparedness

Prosjektleder og prosjektansvarlig: Anne Rønning (NORSUS)

Sammendrag: SHIELDSP: Supply chain Hub for Integrated and Enduring Logistics for Defence, Security and Preparedness. Norway's supply chains across critical sectors, are exposed to geopolitical instability, climate-driven resource shocks, hybrid threats, and compounding crises that directly threaten defence capability, societal security, and economic preparedness in line with the national security strategy. SHIELDSP will establish

Norway's first cross-sectoral research centre for supply chain resilience and sustainability, applying a double materiality framework to assess both how supply chains impact sustainability (inside-out) and how sustainability pressures create supply chain vulnerabilities (outside-in). The centre advances civil-military research cooperation, strengthens total defence, and addresses composite and hybrid threats through long-term, interdisciplinary collaboration between research organisations, industry, and public sector actors.

Aktører (tentativt): Betong Norge, BI, Elkem ASA, FFI (Norwegian Defence Research Establishment), FiReCo AS, Forsvarsbygg, Forsvarsmateriell, Glitre Nett AS, Grønn Gjødsel AS (owned by Yara International ASA), Heidelberg Materials Cement Norge (called HM Cement), Hydro ASA, Isola, Kongsberg Gruppen, Mills, NCCE, Nord Gas Solutions, Norsk Bonde- og Småbrukarlaget (called, Småbrukarlaget), NORSUS, Nortura, NTNU, Østfold Energi, Østfold fylkeskommune.

364823 – Heterogeneous UXV Swarm Systems for Autonomous Reconnaissance and Surveillance

Prosjektleder og prosjektansvarlig: Stefano Cherubin (NTNU – Norwegian University of Science and Technology)

Sammendrag: The Ukraine war highlighted how uncrewed systems are reshaping modern combat. Autonomous ground vehicles (UGVs) excel in rubble-filled or contaminated terrains. Autonomous Underwater Vehicles (AUVs) enable rapid monitoring and response to sabotage of critical sub-sea infrastructure. Uncrewed Surface Vehicles (USVs) are vital for coastal surveillance, mine counter-measures, and maritime interdiction. Uncrewed Aerial Vehicles (UAVs) boost situational awareness and can deliver payloads to contested zones. Swarm robotics provides mission continuity, redundancy, and distributed intelligence across these platforms. Collectively termed UXVs, they are poised to dominate military and civil security domains. Research on manufacturing, control, sensing, programming, and resilience aligns with national security strategies. The HUSSARS centre focuses on heterogeneous UXV swarms for cooperative defence operations.

Aktører (tentativt): NTNU, SINTEF DIGITAL AS, AVAILANT AS, MARITIME ROBOTICS AS, BIODRONE AS, JOTNE AS, Politecnico di Milano (ITALY)

364861 – SHIELD - Structures under High Impact and Extreme Loads for Defence

Prosjektleder og prosjektansvarlig: Tore Børvik (NTNU – Norwegian University of Science and Technology)

Sammendrag: SHIELD will establish a research centre for simulation-driven design and assessment of protective structures, critical infrastructure, and defence systems under extreme loading conditions. By integrating advanced experiments, computational mechanics, and artificial intelligence, the centre will develop digital tools for impact, blast, ballistic, underwater, and drone-related threats. Research will address metals, concrete and rock, composites, and joints, linking material behaviour to structural performance. The developed methods and technology will support applications across military and civilian sectors. In collaboration with its user-partners, SHIELD will translate research into new engineering methods for robust and cost-efficient design, assessment, and protection of critical infrastructure and defence systems. The centre will strengthen Norway's defence capability, societal resilience, and economic security, while educating a new generation of researchers in digital engineering for the defence sector.

Aktører (tentativt): NTNU, FFI, Forsvarets høgskole, OsloMet

364975 – Norwegian Centre for Maritime Cybersecurity

Prosjektleder og prosjektansvarlig: Odd Sveinung Hareide (NTNU – Norwegian University of Science and Technology)

Sammendrag: The Centre for Maritime Cybersecurity will be a national focal point that generates knowledge, methods, tools and competence needed to protect Norway's maritime domain, including vessels, ports, navigation services, and offshore digital infrastructure, against an escalating cyber threat landscape. Recent industry data show maritime cyber incidents more than doubled in 20251, with GNSS spoofing, ransomware against terminals, and supply-chain attacks on satellite communications now routine. The research Centre integrates four research pillars: (i) threat intelligence and risk modelling; (ii) secure OT, navigation and autonomous architecture; (iii) detection, response and resilience; and (iv) civil-military governance and total defence. These are supported by a hybrid cyber range, a security-cleared PhD track, and a trusted convening platform for the Armed Forces, public agencies, industry, and international partners. Outcomes will strengthen societal resilience, defence capability and economic security.

Aktører (tentativt): NTNU, Arctic University of Norway (UiT), Norma Cyber, SINTEF, Energi AS, Kongsberg Maritime, VARD Group, CDP Technologies, TU Delft, University of Plymouth (UoP), Royal Norwegian Navy, Norwegian Coastal Administration, Norwegian Defence Research, Establishment (FFI), Norwegian Naval Academy, Norwegian, Communications Authority (NKOM)

364976 – Centre for molecular preparedness and strategic materials

Prosjektleder og prosjektansvarlig: Henrik Koch (NTNU – Norwegian University of Science and Technology)

Sammendrag: The Centre for Molecular Preparedness and Strategic Materials (PREPARE) will establish a national capability for materials-enabled detection, identification and control of hazardous chemical processes. The Centre will combine theoretical chemistry, computational materials science and advanced spectroscopy to develop nanophotonic, ferroelectric, microfluidics and semiconductor platforms for robustly detecting, identifying andcontrolling hazardous chemical processes in real-time under realistic and challenging conditions. Mate rials will be designed and engineered to provide active, reliable and controllable environments for chemical sensing and control. PREPARE will target sensing, selective transformations, decontamination and environmental monitoring relevant to CBRN preparedness, strategic materials, defense capability, economic security, and societal resilience.

Aktører (tentativt): NTNU: Dept. of Chemistry and Biomedical Science, Dept. of Physics, Dept. of Materials Science and Engineering, NTNU Nano, COSY Gemini Centre

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364977 – Norwegian Centre for Damage-Aware Battery Cells and Systems for Defence Capability and Techno-Economic Security

Prosjektleder og prosjektansvarlig: Steven Boles (NTNU – Norwegian University of Science and Technology)

Sammendrag: DAMAGE will establish a Norwegian centre for safe, damage-aware battery systems for defence capabilities, critical infrastructure and economic security. Batteries are becoming mission-critical in drones, satellites, autonomous Arctic sensor stations, field power, vehicles, maritime platforms and emergency power systems. Damage, cold-climate operation and insecure supply chains can turn batteries into mission, safety and preparedness risks. NTNU and UiA will co-lead research on mechanical deformation, imaging, smart sensing, state-of-safety, electrochemical cold-climate damage, low temperature electrolytes and coupled electro-chemo-mechanics. Together with research institutes, defence users and industry, the centre will develop test methods, data tools, prototype cells and demonstrators that strengthen Norwegian readiness, procurement competence and battery value-chain resilience.

Aktører (tentativt): NTNU, University of Agder, SINTEF Industry, NORCE

364985 – Norwegian Center for Cyber Defence Research - NorCyDeR

Prosjektleder og prosjektansvarlig: Sokratis Katsikas (NTNU – Norwegian University of Science and Technology)

Sammendrag: Norway's cyber-defence capability is strong but fragmented; no existing initiative provides the integrated framework needed to operationalize the National Security Strategy and Total Preparedness agenda when it comes to cyberspace. NorCyDeR focuses on achieving this in the cyber domain through research-driven integration, while embedding Norway in the emerging European dual-use cybersecurity ecosystem. Five Focus Areas: institutional cyber exercises; equipment testing and validation; effects of cyber threats on Command, Control, Communications, Computers, Intelligence, Surveillance and Reconnaisance (C4ISR); resilient cyber value chains; and cyber competence development, will be developed through eight Work Packages spanning the innovation cycle, from ideation to ecosystem orchestration. The consortium brings together universities, the Norwegian defence and security research base, KIKS operators, R&D partners, and industry.

Aktører (tentativt): NTNU, The Norwegian Defence University College (FHS), University of South-Eastern Norway (USN), SINTEF, Energy, Norsk Regnesentral (NR), Simula, Norwegian, Defence Research Establishment (FFI), Institute for, Energy Technology (IFE), NORCE, SINTEF Digital, Mnemonic, NC-Spectrum, Norwegian Cybersecurity, Cluster (NCC), Vaager Innovasjon, Naoris, Cyberforsvaret (Cyfor), Aeger Group, Norwegian, National Security Authority (NSM), KraftCERT, VentureNet, University of Oslo (UiO), Cisco, Elvia, TEK, Norge, Norsk Hydro, Statnett

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365001 – Dataflows for Resilient Agile Multi-Domain Operations - DREAM

Prosjektleder og prosjektansvarlig: Roger Birkeland (NTNU – Norwegian University of Science and Technology)

Sammendrag: Data is critical to help taking fast, good and correct decisions, both in normal situations and in times of, incidents, crisis and war. We are surrounded by sources of digital data, stemming from measurements of our surroundings. This can be images, video and audio, text and transcripts, satellite observations, weather data, radar images and anything in between. The data is multi-modal and the sensor agents are diverse and heterogeneous. An explainable and understandable representation of the correct type of data to the required time is crucial for efficient, safe and secure operations, debrief and learning, for civil actors and military alike. The center encompasses military and civilian actors aiming to build better data driven decision making processes and frameworks for debrief, learning and information sharing. A national focus is needed, where civilian and military organizations must engage and strengthen collaboration.

Aktører (tentativt): NTNU, FFI, Norw. Defence Univ. College, Industry: Kongsberg, KSAT, Andøya Space, BRUS. In dialogue with several others., Military: CAOC, 132 Airwing, Governmental: JRCC, Politimesteren i Nordland

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365002 – Centre for Persistent Autonomous Systems: Marine National Security

Prosjektleder og prosjektansvarlig: Martin Ludvigsen (NTNU – Norwegian University of Science and Technology)

Sammendrag: With over 8,800 km of pipelines and 4,000 km of seabed cables, Norway is structurally exposed in its oceanic domain — and the threat profile is shifting rapidly toward hybrid and asymmetric approaches. CPAS — Centre for Persistent Autonomous Systems: Marine National Security — will build Norway's sovereign research and innovation capacity to achieve continuous, adaptive presence in our oceans. The centre integrates edge autonomy, autonomous robotic organisations, remote sensing including distributed acoustic sensing, and operational ocean modelling into a unified observation system enabling non-deniable detection of threats to critical infrastructure. What distinguishes CPAS is its organisational model: Mission Teams — small, focused, agile units of PhD candidates and researchers operating at the speed of the threat rather than the pace of traditional academia. Co-led by NTNU and FFI, and supported by a consortium including SINTEF Ocean, MET Norway, Kongsberg Discovery, Fugro and the Norwegian Navy, CPAS will deliver operational prototypes validated in NATO exercises, open methods and libraries for persistent ocean observation, and a cohort of security-cleared graduates uniquely qualified for roles in defence, industry and public sector.

Aktører (tentativt): NTNU – Institutt for marin teknikk, FFI, SINTEF Ocean, Meteorologisk institutt, Kongsberg Discovery, Maritime Robotics, Fugro, Alcatel Subsea Networks, Forsvarets Høyskole, Statens Kartverk

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365003 – Drone Research and Innovation Centre

Prosjektleder og prosjektansvarlig: Tor Arne Johansen (NTNU – Norwegian University of Science and Technology)

Sammendrag: A total defense that can quickly adapt is necessary due to the dynamics of fast-changing threats and tactics by adversaries, powered by rapid adoption of low-cost dual-use technologies, digitalization and AI. We aim to build defense capability through agile development cycles of aerial drone systems and counter-drone systems with close user interaction, secure and robust supply chains, low-cost, scalable production and deployment. Our mission is to create and nourish a world-leading ecosystem for research, innovation and education on aerial drone systems, their production and use for defense capacity, security, and response.

Aktører (tentativt): NTNU, NORCE (Norwegian Research Centre), FFI (Norwegian Defence Research Establishment), FHS (Norwegian Defense University College), MET (Norwegian Meteorological Institute), Norwegian Armed Forces and government: Sjøforsvaret, Forsvarets Droneprogram Luft, Forsvarets Droneprogram Land, Combined Air Operations Centre Bodø, HV-12, Forsvarets operative hovedkvarter, Politiet, 132 Luftving Ørland, NEO,

Six Robotics, Robot Aviation, Kitron, UBIQ, Teleplan Globe, Tiepoint, Rift Dynamics, Tronrud Engineering, NorChip, Griff, Radionor Communications, KONGSBERG, Maritime Robotics, NORDSEC, Eggemoen, Andøya Space, TESTNOR, SERVI, NORBIT, GCE Node / Future defense industry south, Student organizations: Ascend og Propulse.

365014 – VARDN – Research Centre for Vital Defence Capability, Security, and Scalable Distributed Preparedness Nodes

Prosjektleder og prosjektansvarlig: Erica Löfström (NTNU – Norwegian University of Science and Technology)

Sammendrag: VARDN is a national research center for strengthening Norway's defence capability, societal security and preparedness through scalable distributed preparedness nodes. Hosted by NTNU Department of Design, the center partners with crucial academic competences, businesses, pilot municipalities, public agencies, industry, farmers, civil society, emergency actors and the Norwegian Armed Forces. VARDN adopts an innovative approach by establishing pilot nodes in strategically selected municipalities using resource mapping, GIS-based risk analysis, digital tools, prototyping and user testing to develop Norway's preparedness capacity. Central are Preparedness Policy Labs, where local and national actors co create solutions and evidence-based policy recommendations. VARDN delivers scalable models for establishing additional preparedness nodes, digital tools, prototypes, new methods and competence for strengthening Norway's total preparedness and societal resilience to better defend its core values.

Aktører (tentativt): NTNU, Department of Design (Trondheim/Gjøvik), NTNU, Department of International Business

365036 – DYNAMO - Dual-use sYstems for Adaptive and resilient Norwegian Manufacturing ecOsystems

Prosjektleder og prosjektansvarlig: Fabio Sgarbossa (NTNU – Norwegian University of Science and Technology)

Sammendrag: DYNAMO addresses the urgent need to strengthen Norway's defence capability, societal resilience, and economic security by enabling access to critical adaptive and resilient dual-use manufacturing capacities and capabilities before and during crisis. DYNAMO will establish a research-based, collaborative platform for a dual-use manufacturing ecosystem, developing and integrating advanced materials, flexible manufacturing technologies, AI-driven decision systems, and digital twins into coordinated viable and resilient Norwegian manufacturing supply chains. By enabling rapid upscaling, rescaling, distributed production, and supply chain resilience, DYNAMO will reduce dependency on global supply chains and enhance Norway's preparedness in crisis situations. DYNAMO will provide a strong basis for workforce (re)skilling at multiple levels, for both civilian and defense manufacturing sectors.

Aktører (tentativt): NTNU, University in Agder (UiA), University of South-Eastern Norway (USN), Aalborg University (Denmark), Fieldmade, KONGSBERG, Kitron, Nammo, GCE Node, Forsvarsmateriell (FMA)

365045 – Festningsbyen 2.0 - hvordan planlegger og bygger vi framtidens bosettinger ved Norges militære nøkkelpunkt uten voller og murer?

Prosjektleder og prosjektansvarlig: Daniel Johansen (NTNU – Norwegian University of Science and Technology)

Sammendrag: Festningsbyen 2.0 skal utvikle helhetlige løsninger knyttet til samfunnssikkerhet, beredskap, prosjektering og planlegging for små og mellomstore kommuner nær militærbaser. Småbyene og tettstedene skal planlegges med nye og oppdaterte systemer for kritisk infrastruktur inkludert energiselvforsyning med motstandsdyktighet mot sabotasje og hybrid krigføring. Det skal utvikles stedstilpassede modeller for bombesikker beredskapsinfrastruktur som kan ha fleksibel bruk i fredstid. Det skal etableres løsninger for evakueringsinfrastruktur. Sentret skal i tillegg utvikle modeller for resiliens i nabolagsutvikling, både sosialt og strukturelt, i samarbeid med lokalsamfunnene. Småbyene og tettstedene skal planlegges for livsløstilpassede boligmodeller med beredskapsinfrastruktur, og skal få nye planer for å styrke attraktivitet i bygging og planlegging. Dette for å styrke pilotkommunenes konkurransedyktighet som bosted for kritisk forsvarspersonell.

Aktører (tentativt): Ved NTNU: Institutt for arkitektur og teknologi, Institutt for arkitektur og planlegging, Institutt for, design, Institutt for konstruksjonsteknikk, Institutt for medisin og helsevitenskap, Institutt for tverrfaglige kulturstudier. Utenfor NTNU: Luftkrigsskolen, Universitetet i, Tromsø, Forsvarsbygg, Husbanken, Ørland kommune, Stjørdal kommune

365052 – Norway - Ukraine Centre for Innovation in Resilience and Security

Prosjektleder og prosjektansvarlig: Govert Valkenburg (NTNU – Norwegian University of Science and Technology)

Sammendrag: In the Norway-Ukraine Centre for Innovation in Resilience and Security (NUCIRS), actors across Norway and Ukraine research and promote resilience and security in response to complex threats. NUCIRS will pursue the following objectives: (1) Building resilient societies, able to anticipate, absorb and recover from disruption. (2) Developing robust technologies and infrastructures that can absorb impacts and retain stable operation under changing circumstances and adapt to new circumstances. (3) Achieve cohesive civil-military collaboration where sectors are aligned. Taking the perspectives of crisis response, reconstruction, and innovation, NUCIRS conducts comparative research and innovation, both socio-cultural and technological, across Norway and Ukraine, and across multiple thematic areas. We work towards validated security and resilience solutions, decision

support frameworks, a knowledge base of transferrable lessons learned, and active innovation ecosystems and collaborative arenas.

Aktører (tentativt): NTNU – Faculty of Humanities, NTNU Social Research, Norwegian Defence University College, Ruralis, Norwegian Defence Research Establishment, Trøndelag County Authority, Directorate for Civil protection, Ørland Airbase / 132 Air Wing, NORDSEC, Tavria State Agro. Univ., Zaporizhzhia National University, Zaporizhzhia Regional State Administration, Urban Coalition for Ukraine

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365058 – National Research Centre for Infrared Sensor Technology

Prosjektleder og prosjektansvarlig: Astrid Aksnes (NTNU – Norwegian University of Science and Technology)

Sammendrag: Optical detectors are central in defence and security-related technology since observation and reconnaissance are indispensable to all aspects of defence, security and resilience challenges from surveillance of critical infrastructure to modern battlefield management. This center will develop high-performance photon detectors in the short to mid-infrared range for military applications, ultra sensitive single-photon detectors for future defense and security needs, and processing technologies for future scalable manufacturing to secure the long-term supply. Securing vital material and technology access in high-end semiconductors to Norway is of pivotal importance. The centre will collect cross-sectoral expertise on semiconductor photodetectors in Norway to push the state-of-the art and strengthen collaboration with end users and the Armed Forces, educate next-generation experts, and strengthen the competitiveness of Norwegian defence and security industry.

Aktører (tentativt): NTNU, FFI, SINTEF Industry, Research Institutes of Sweden (RISE), Kongsberg Defence & Aerospace (KDA), Justervesenet, Integrated Detector Electronics AS (IDEAS), Trivionics Technologies AS, IRTech AS, The Royal Norwegian Navy, Maritime Warfare Centre

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365067 – Center for locating, identifying, and managing Explosive Remnants of War in the Environment.

Prosjektleder og prosjektansvarlig: Mats Ingulstad (NTNU – Norwegian University of Science and Technology)

Sammendrag: CERWE will combine different tools and methodologies into an integrated approach based on the observation pyramid concept, providing Norway with new capabilities to detect, assess and manage the complex risks and long-term challenges created by ERWs (Explosive Remnants of War) More than a million tons of ERWs are spread across the Norwegian environment, both in the ocean, on land, and in lakes, rivers and drinking water reservoirs. They pose both an immediate risk of detonation, but also a long-

term hazard as toxic chemicals leak into the environment and a risk for being used for criminal purposes. Despite the threat to critical infrastructure, natural resources, life and health, Norway lacks an integrated national capability for managing these threats. The center's results are expected to have high transferability to humanitarian demining and for the situation related to ERWs in Ukraine.

Aktører (tentativt): NTNU, Norwegian Defence Research Establishment (FFI), Norsk Folkehjelp, Veseth AS, Eelume,, Blueye

365070 – Quantum enhanced imaging and sensing for life and health (Q-Imagine)

Prosjektleder og prosjektansvarlig: Irina Sorokina (NTNU – Norwegian University of Science and Technology)

Sammendrag: Quantum-Enhanced Imaging and Sensing for Life and Health (Q-IMAGINE) will establish a national centre dedicated to the development of quantum-enabled imaging, ensing, and diagnostic technologies to strengthen societal health security, preparedness, and resilience. Led by NTNU, the center combines world-leading expertise in quantum photonics, sustainable materials, neuroscience, and biomedical imaging with industrial translation to Norwegian photonics and electro-optics companies and collaboration with leading partners across Europe and North America. Q-IMAGINE will develop compact quantum laser and sensing platforms for ultra-sensitive detection of biomarkers associated with diabetes, Alzheimer's disease, neurodegenerative disorders, and emerging infectious bacterial and viral diseases. By enabling earlier diagnosis, continuous monitoring, and deeper understanding of disease mechanisms, the center will support prevention, preparedness, and reduced healthcare burden. Novel quantum-enhanced bioimaging technologies will provide unprecedented insight into brain function, disease progression, and recovery, creating opportunities for future precision medicine beyond capabilities of current approaches. Through interdisciplinary collaboration across physics, engineering, life sciences, and medicine, Q-IMAGINE will establish sustainable and secure photonic technology platforms and strengthen Norway's capacity to address major health threats, improve pandemic preparedness, and enhance long-term societal resilience.

Aktører (tentativt): Department of Physics NTNU/IFY, Department of Material Science/IMA, Kavli Institute for Neuroscience, Karolinska Institute, Norsk Electrooptics//NEO, Atla Lasers AS, Planck Technologies AS

364981 – DUGNAD: Resilient hubs for collaborative preparedness and response

Prosjektleder og prosjektansvarlig: Ivonne Herrera (NTNU Samfunnsforskning)

Sammendrag: DUGNAD is a national transdisciplinary research centre that strengthens Norway's defence capability and societal resilience by turning underused knowledge into practical preparedness solutions. Its consortium of 32 actors bridges civil, military, public, private, community, and research sectors to improve total defence, whole-of-government and -society preparedness from everyday operations to crisis and war. Through four hubs representing Norway´s regional diversity, municipalities, defence actors, critical infrastructure operators, voluntary organisations and researchers will co-develop practical solutions. Each hub will identify critical societal functions and dependencies, develop realistic disruption scenarios, and test coordination and continuity across normal, degraded and manual modes informing tools, protocols, exercises, and governance. By connecting national priorities with local practice and international experience, DUGNAD will deliver scalable tools and governance models for real preparedness workflows.

Aktører (tentativt): Forsvarets forskningsinstitutt, Heimevernet, SINTEF AS, SINTEF Ocean, NORSAR, NTNU, UiO, UiT, UiS, Nordlab, Oslo/Tromsø/Bodø/Nesseby/Senja/Kristiansund Kommune, Trondheim Røde Kors, Trøndelag brann og redningstj., Statsforvalteren-Trøndelag, Bardufoss, Troms Fylke, Midt-Tromsrådet, Trondheim Havn, Sivilforsvaret, Kommunesektorens organisasjon, Secure Practice, Statnett, AugmentCity, Lund Center Preparedness_Resilience, TNO, INERIS-Disaster Resilience Network.

364982 – The International Security Environment: Politics, Industry and Technology

Prosjektleder og prosjektansvarlig: Karsten Friis (NUPI Norwegian Institute of International Affairs)

Sammendrag: Norwegian security and defence rests on a "blue" security environment, where NATO, the EU, allies and the allied defence-industrial base constitute key nodes. However, in the state's own knowledge apparatus, this security environment has traditionally been studied less systematically than the "red" side of potential adversaries. This leaves a strategic blind spot, and a knowledge gap which needs to be filled. The blue side is changing at least as fast as the threat it is meant to counter, driven by shifts in NATO, the EU, allied defence spending, technology and the war in Ukraine. BLUE will be the first research centre in Norway to systematically study the allied security environment. It will analyse the interaction between three pillars: politics, defence industry and technology, and transform the resulting findings into concrete strategic direction for national plans, policies and investments.

Aktører (tentativt): NUPI, Norce Research, Institute for Defence Studies (IFS), Norwegian Defence University College, ARENA – Center for Europe Research, UiO, Sahadachnyi Security Center, Kyiv, Ukraina, Maastricht University, Nederland, RUSI – Royal United Services Institute, London, UK, FSi – Association of Norwegian Defence and Security Industries, Norwegian Space Agency, Kongsberg, Radionor, Polarion Capitol, Norwegian Armed Forces/Space, Norwegian Joint Headquarters (NJHQ), Norwegian Defence Staff/TCI, Norwegian Ministry of Defence, Norwegian Ministry of Foreign Affairs, Norwegian Ministry of Justice

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365065 – Total Defense Analytics Hub

Prosjektleder og prosjektansvarlig: Louise Olsson (PRIO Peace Research Institute Oslo)

Sammendrag: An improved understanding of the human and societal costs of modern warfare constitutes a cornerstone for realizing the Norwegian National Security Strategy and for an effective total defense. The goal of the Total Defense Analytics Hub is to: 1) build Norwegian research competence on preparing for societal impacts, safeguarding the population, and mobilizing popular support and resources for defense on a complex crisis spectrum – from hybrid and low-intensity warfare to full scale war in the Nordic Baltic region – in a new technological landscape; 2) offer military and civilian Norwegian security actors evidence-based and data-driven analyses and impact prediction scenarios; 3) constitute an expert platform by providing Norwegian security actors long-term access to a network of world-leading experts that employ novel interdisciplinary combinations of cutting edge methods. The Hub's empirical focus is placed on Norway but includes ripple effects from possible crises in the Nordic–Baltic region.

Aktører (tentativt): PRIO, Forsvarets forskningsinstitutt (FFI), Frischsenteret (Frisch), Folkehelseinstituttet (FHI), Department of Peace and Conflict Research, (DPCR), Uppsala University, Norwegian Red Cross, Forsvaret, Kommunenes Sentralforbund

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365017 – Research Centre for Critical Communication and Compute Infrastructure for National Preparedness

Prosjektleder og prosjektansvarlig: Sven-Arne Reinemo (Simula Metropolitan Centre for Digital Engineering (SimulaMet) - Centre for Resilient Networks and Application (CRNA)

Sammendrag: CRITICOMP is proposed as Norway's national research centre for critical communication and compute infrastructure, the "digital foundation" on which the economy, civilian preparedness and defence jointly depend. Hosted by SimulaMet with UiO, SGP, FFI and Telenor, it conducts strategic research aligned with the Total Defence ecosystem, analysing natural/technical, cyber and physical threats across the communication and compute layers. Work spans three pillars: communication and compute resilience; measurement, monitoring, analytics and prototyping; and national sovereignty, digital value chains and governance. It builds on existing experimental facilities. Deliverables include

operational blueprints, open knowledge bases, policy input, publications, standards contributions, and PhDs eligible for security clearance, reducing dependency on non-trusted foreign vendors.

Aktører (tentativt): SimulaMet, Simula Research Laboratory, University of Oslo, Norwegian Defence Research Establishment (FFI), Norwegian Agency for Classified Information Systems (SGP), Telenor, University of Aberdeen, Karlstad University, INRIA, (France, pending), Forsvarets høgskole - Senter for Anvendt, Teknologi i Militær Operasjoner, Celerway

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364957 – Center for Advanced Resilient Engineering and Structures

Prosjektleder og prosjektansvarlig: Thomas Michael Surowiec (Simula Research Laboratory)

Sammendrag: The ARES Center will pioneer advanced computational design techniques to engineer topologically optimized, mass-efficient structures for defense-critical technologies such as lightweight mobility and unmanned aerial vehicles as well as civil infrastructure and demanding maritime and offshore applications. Functioning as a critical bridge between academia and the civil and military sectors, ARES will translate structural engineering and mathematical modeling nto dual use technologies. This research provides Norway the sovereign capability to rapidly design custom components that withstand extreme crisis loads, an agility that is currently impossible with standard commercial tools. Our goal is to serve Norway's Total Defense strategy by maximizing the protection and agility of military personnel, while simultaneously offering resilient, high performance structural solutions for civilian first responders and the critical infrastructure that powers and connects our nation.

Aktører (tentativt): Simula Research Laboratory, Statens Vegvesen, Kongsberg, NAMMO Raufoss AS, Forsvarets Høgskole, RheinMetall, NTNU, SINTEF Digital

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365041 – Centre for Secure Information Architectures for Defence and Preparedness

Prosjektleder og prosjektansvarlig: Carlos Cid (Simula Research Laboratory)

Sammendrag: SecInfo (Centre for Secure Information Architectures for Defence and Preparedness) will develop the scientific foundations, technologies and expertise needed to strengthen secure information sharing across Norway's total defence ecosystem. The centre will address fundamental challenges related to trusted information architectures, data-centric security, secure information processing, civil-military collaboration and digital sovereignty. By bringing together leading researchers, public authorities and operational stakeholders, SecInfo will create new knowledge and demonstrators that improve resilience, situational awareness and decision-making during crises and security incidents.

The centre will contribute to strengthening Norway's defence capability, security and preparedness while educating experts in strategically important areas of cyber security and information management.

Aktører (tentativt): Simula Research Laboratory (Simula), Statens graderte plattformtjenester (SGP), Statsministerens kontor (SMK)

365073 – Center for Cognitive Security and Autonomy

Prosjektleder og prosjektansvarlig: Johannes Langguth (Simula Research Laboratory)

Sammendrag: The goal of the Centre for Cognitive Security and Autonomy (CCSA) is to protect Norway's information space from AI-driven cognitive warfare, systemic disinformation, and foreign influence operations. It addresses vulnerabilities in human decision-making and safeguards cognitive autonomy against biased viewpoints exported via large language models. Research will focus on detecting advanced LLM-based cognitive threats. The centre will create a national-scale digital twin of the population in order to analyse how individual human cognitive biases affect attack susceptibility at scale, and algorithms for this virtual population will be developed to simulate cognitive warfare scenarios and formulate optimal defensive strategies. The end goal is to design next-generation countermeasures, transforming national cognitive security into a proactive, predictive capability.

Aktører (tentativt): Simula, Mediatilsynet, Norwegian Defence University College (NDUC), Nasjonal sikkerhetsmyndighet (NSM), Kongsberg (in dialogue)

364947 – ROBUST — Robuste og autonome bygg og områder for samfunnssikkerhet og beredskap

Prosjektleder og prosjektansvarlig: Jonas Holme (SINTEF Community)

Sammendrag: ROBUST er et forslag til forskningssenter som skal styrke Norges samfunnssikkerhet og beredskap ved å utvikle kunnskap og løsninger for fysisk robuste og energiautonome bygg og områder. Senteret bygger på erkjennelsen av at naturkatastrofer, ekstremvær, hybride trusler og krigshandlinger kan ha identiske effekter på bygg og infrastruktur. ROBUST kombinerer fysisk robusthet (tåle ytre påkjenninger), funksjonell robusthet (fortsette å fungere når omgivelsene svikter) og gjenopprettingsevne. Senteret er direkte forankret i Totalberedskapsmeldingen (2025) og Riksrevisjonens rapport om totalforsvaret (2025). Forskningen er organisert i fire arbeidspakker: fysisk sikring og oppgradering av bygg, tilfluktsrom og sambruk, energiautonomi og forsyningssikkerhet, og beredskapsplanlegging og ressursforvaltning. Senteret vil levere praktiske verktøy – klassifiseringssystem for sivile bygg, digitale ressursoversiktsverktøy og tiltakskataloger – som kommuner, eiere og utbyggere kan ta i bruk.

Aktører (tentativt): SINTEF Community, SINTEF Industri, NTNU Samfunnsforskning

364965 – Center for Regional Resilience and Prioritization in Norway's Narrow Center

Prosjektleder og prosjektansvarlig: Maria Vatshaug Ottermo (SINTEF AS)

Sammendrag: Different regions in Norway face distinct preparedness challenges based on their unique infrastructure and geography. Helgeland serves as a critical case study because it possesses a diverse industrial base and acts as the geographical bridge dividing Norway in two. This center will develop a societal prioritization plan that ensures the benefit of the local population during crises (war, natural disasters, pandemics), identifying which local services must be maintained to safeguard both critical community functions while simultaneously securing the north-south national connection. Achieving this requires clearly defined roles, including scientific leadership, sector experts, public authorities, industry partners, and volunteers who contribute local capacity and response capabilities. This also includes a specification of who does what at local, regional, and national levels, ensuring coordinated responsibilities across actors.

Aktører (tentativt): SINTEF AS, SINTEF Ocean AS, SINTEF Energi AS

364969 – Transport Civil-Military Integration for Security and Total Defence

Prosjektleder og prosjektansvarlig: Hanne Seter (SINTEF AS)

Sammendrag: Senteret skal utvikle kunnskap, metoder og løsninger for hvordan transportsystemet kan styres og utnyttes som et felles sivilt-militært kapasitetsgrunnlag i krise og krig. Transport er avgjørende for både militær mobilitet, vertslandsstøtte og andre kritiske samfunnsfunksjoner, men dagens beredskap er i stor grad sektorisert. Senteret vil forske på prioritering, samstyring og robusthet i transportsystemet under samtidige belastninger og knapphet. Gjennom tverrfaglig forskning og tett samarbeid mellom forsvar, forvaltning og næringsliv skal senteret utvikle beslutningsstøtte, scenarier og verktøy for planverk og øvelser. Senteret vil fungere som en integrerende arena for samskaping, testing og operasjonalisering av totalforsvaret. Resultatene vil styrke forsvarsevne, forsyningssikkerhet og samfunnets motstandskraft. Samtidig vil senteret bidra til mer samhandling, bedre ressursutnyttelse og økt robusthet i transportsystemet, med relevans også for andre kriser.

Aktører (tentativt): NTNU Samfunnsforskning AS, Forsvarets Forskningsinstitutt, Forsvarets Høgskole, Forsvarets Logistikkorganisasjon, Statens vegvesen, Bane NOR, Jernbanedirektoratet, Försvarshögskolan i Sverige

364972 – Centre for Host-Community Resilience and Preparedness under Military Expansion

Prosjektleder og prosjektansvarlig: Anita Øren (SINTEF AS)

Sammendrag: COHERE addresses a critical challenge arising from Norway's accelerated military build-up: the tension between national security priorities and municipalities' ability to sustain welfare services. As military activity and the defence industry expand, local authorities face increasing pressure on housing, labour markets, infrastructure, and public finances. The centre will develop research-based knowledge, governance models, and practical tools to help municipalities manage this growth without undermining social cohesion. A key strength is its comparative dimension, linking partners from Sweden, Finland, Estonia, and Lithuania to identify transferable best practices. COHERE directly supports the core priorities of Norway's National Security Strategy: strengthening defence capability, enhancing societal resilience, and safeguarding economic security.

Aktører (tentativt): SINTEF AS, Mid Sweden University, NTNU Social Research, NTNU, NORCE

365009 – Centre for Cognitive Security, Artificial Intelligence and Societal Resilience

Prosjektleder og prosjektansvarlig: Daniel Thilo Schroeder (SINTEF Digital)

Sammendrag: The centre will contribute to establishing cognitive security as a national research field and long-term capability for Norway. It will study how artificial intelligence and related digital infrastructures reshape trust, judgement, public debate and societal coordination, with AI-enabled influence operations as the flagship research programme and empirical testbed. The centre combines social science-informed threat analysis, safeguarded simulation and human effect research, democratic response design, and international foresight. Its primary outputs are new knowledge, trained researchers, shared methods and durable research networks; practical preparedness tools for defence, public-sector, media, industry and civil-society partners will follow from this knowledge base

Aktører (tentativt): SINTEF Digital, Norwegian Defence Research Establishment (FFI), BI Norwegian Business, School, Simula Research Laboratory, OsloMet, Sopra Steria, Revontulet, Bellona, Langsikt,, University of Stavanger, Norwegian Armed Forces Cyber Defence, Kristiania, Fritt Ord, Civita,, WEXFO, UTSYN, University of Cambridge, Max Planck Institute for Security and Privacy, City St, George's University of London, EU DisinfoLab, NATO StratCom COE AI Lab

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365019 – Centre for Extreme (plus and minus) scalability in defence industry

Prosjektleder og prosjektansvarlig: Sverre Gulbrandsen-Dahl (SINTEF AS)

Sammendrag: The proposed Centre for Extreme ± Scalability will address a critical gap in Norway's preparedness: the ability to scale industrial capacity both up and down across peace, crisis and war. While current efforts focus primarily on rapid expansion, little attention is given to managing contraction without loss of competence and capability. The centre will develop knowledge, methods and solutions for bi directional industrial scalability, enabling flexible, controlled and sustainable adjustment of production, supply chains and workforce, enhancing capability for total defence and preparedness. By integrating engineering, digital, organisational and socio-economic perspectives, the centre will establish industrial scalability as a new research-based discipline. Through close collaboration with industry, authorities and societal actors, and through pilots and demonstrators, the centre will translate research into practice. The results will strengthen Norway's defence capability, economic security and societal resilience by enabling a more robust and adaptable industrial base.

Aktører (tentativt): SINTEF, University of South-Eastern Norway, School of Business + input from partners (NTNU Faculty of Engineering, NTNU Faculty of Economic and Management, TU Delft, Faculty of Mechanical Engineering, Norwegian Defence University College,

Nammo, KONGSBERG, Chemring Nobel, Plasto, Mjøs Metallvarefabrikk, Aarbakke, Norsk Industri, LO, næringspolitisk avd., Kongsberg kommune / Kongsbergregionen, Vestre Toten kommune / Gjøvikregionen)

365020 – Centre for National Expertise in the Value Chain of Energetic Materials

Prosjektleder og prosjektansvarlig: Sverre Gulbrandsen-Dahl (SINTEF AS)

Sammendrag: The proposed Centre for National Expertise in the Value Chain of Energetic Materials will address a critical bottleneck in Norway's defence capability: secure and scalable access to energetic materials. These materials underpin ammunition, propulsion systems and explosives, yet the national competence base is fragmented and insufficient. The centre will establish a long-term, interdisciplinary platform covering the full value chain, from synthesis and production to safety, reliability and lifecycle management. By integrating research, industry and defence stakeholders, the centre will develop knowledge enabling safe industrial scale-up, improved reliability and strengthened supply chains. Through competence building and close collaboration with end users, the centre will reduce strategic vulnerabilities and strengthen Norway's preparedness and operational readiness. The centre will also involve relevant stakeholders from the civilian sector.

Aktører (tentativt): SINTEF, FFI, NMBU, NTNU, Forsvarsbygg

365027 – Industriell forsyningssikkerhet og resiliens for samfunnets forsvarsevne

Prosjektleder og prosjektansvarlig: Maria Kollberg Thomassen (SINTEF AS)

Sammendrag: INSURE+ adresserer et kritisk nasjonalt behov for å styrke Norges forsvarsevne, forsyningssikkerhet og motstandsdyktighet i samfunnet gjennom industriell verdiskaping. Senteret skal utvikle ny kunnskap, metoder og løsninger for hvordan sivile industrielle systemer, for produksjon, logistikk og verdikjeder kan bidra aktivt til totalforsvaret. Senteret kombinerer forsvarslogistikk, industriell kapasitetsbygging, forsyningssikkerhet, digitale verdikjeder og KI, og sirkulære strategier for å øke gjennomføringsevnen i krise og konflikt. Gjennom tett samspill mellom forskningsmiljøer, forsvarssektoren, industri og sivile beredskapsaktører skal senteret styrke beslutningsgrunnlaget for langsiktige investeringer i sikkerhet, kapasitet og resiliens, og gjøre norsk industri til en strategisk ressurs for nasjonal sikkerhet.

Aktører (tentativt): SINTEF, Electronic Coast-klyngen, TKS Agri AS, Orkel AS, Forsvarets høgskole, NTNU Industriell Økonomi og Teknologiledelse (IØT)

365035 – Center for Adaptive Resilience though Agentic AI

Prosjektleder og prosjektansvarlig: Tor Olav Grøtan (SINTEF Digital)

Sammendrag: CARA aims to counter brittleness in Norway's security and preparedness systems due to uncertainty and complexity. Planning, coordination and robustness are necessary but insufficient. CARA focuses on resilience as sustained adaptive capacity across civil, public, military and private sectors, and how agentic AI can support key features of adaptive capacity. Scientific knowledge, tools and methods will be developed through experimentation and in safe sandboxed environments. Research will address human–AI interaction, governance, data protection and organisational responsiveness. Use cases will demonstrate applicability across defence value chains, dual-use resources and municipal and national preparedness. As a national hub for piloting, learning and dissemination, CARA will strengthen interdisciplinary collaboration and enable scaling across domains and sectors. Its long term impact is improved resilience, reduced risk of brittle collapse, and enhanced total defence.

Aktører (tentativt): SINTEF Digital, SINTEF Industri, NTNU Samfunnsforskning, Ohio State University, SecurePractice, Norges Idrettsforbund (NIF), Oslo kommune, KONGSBERG, Orkel

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365046 – Kritiske avhengigheter, kaskadevirkninger og bufferka-pasitet – et nasjonalt senter for samfunnssikkerhet og beredskap

Prosjektleder og prosjektansvarlig: Gunrid Kjellmark (SINTEF AS)

Sammendrag: Norge avhenger av at energi, vann, transport, helse og digitale tjenester virker sammen, men kunnskap om kritiske avhengigheter og risikoområder er begrenset. KASKADE+ etablerer et nasjonalt senter som identifiserer viktige risikofaktorer og samfunnsfunksjoner, forstår mekanismene bak kaskadevirkninger, og utvikler løsninger som styrker samfunnets resiliens, fra hverdagsforstyrrelser til sikkerhetspolitisk krise og væpnet konflikt. Et premiss er at robusthet of forsvarsvilje i det sivile samfunnet er en forut setning for totalforsvar og forsvarsevne. Sivilt-militært samarbeid er derfor en integrert del av senterets forsknings- og læringsaktivitet. KASKADE+ skal fylle kunnskapsgapet gjennom kartlegging og priorite ring til dypdykk og løsningsutvikling, organisert i fem arbeidspakker forankret i fire regionale lærings arenaer (Nord, Midt, Vest og Sør-Øst). Senteret ledes av SINTEF i samarbeid med Aktører (tentativt) fra infra struktureiere, kommuner, fylker, helsetjenester, beredskapsaktører, Heimevernet og frivillige.

Aktører (tentativt): SINTEF AS, Trondheim. Sentr. HV-omr.

365066 – Centre for Operational Readiness in Military and Civil Health and Societal Resilience

Prosjektleder og prosjektansvarlig: Cecilie Våpenstad (SINTEF AS)

Sammendrag: Modern crises and armed conflict have shown that the decisive determinants of survival are increasingly set in the prehospital phase, close to the point of injury, under conditions of degraded communication, contested evacuation and scarce specialist resources. The full-scale war in Ukraine has made this unmistakable with air and ground evacuation frequently denied, the "golden hour" can no longer be assumed, and care must instead be sustained far forward for hours. CORE will build an integrated, AI-enabled approach to prehospital intelligent diagnostics, triage and decision-making that is explicitly designed to be shared across the civilian and military sectors. Led by SINTEF together with the military, university hospitals, and leading academic and industrial actors, CORE will develop dual use tools, AI-based diagnostics and knowledge that strengthen Norwegian and allied defense capability while improving everyday emergency medicine and rural healthcare.

Aktører (tentativt): FFI, Simula, Forsvarets Sanitet, Luftforsvarets Sanitet, Saniteten i Sjøforsvaret, Hærens Sanitetsbataljon, Regionalt akuttmedisinsk kompetansesenter (RAKOS), Sykehuset Innlandet, Oslo Universitetssykehus Intervensjonssenteret, St. Olavs Hospital Klinikk for bildediagnostikk, Helseinnovasjonssenteret, Aukra Kommune, Stiftelsen Norsk Luftambulanse, Norway Health Tech, Telenor, GE Healthcare, Nordiq Products, Oregon Health & Science University (OHSU), Ultrasound Imaging Automation Inc

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365069 – Rapid Repair and Restoration of Critical Subsea and Maritime Infrastructures under Hybrid Threats

Prosjektleder og prosjektansvarlig: Antonio Alvaro (SINTEF AS)

Sammendrag: The RESTORE centre addresses a critical gap in preparedness: the limited capacity to rapidly repair and restore subsea and maritime infrastructure in crisis situations. Despite recent improvements in monitoring and protection, response capabilities remain fragmented and slow. The centre will establish a national hub for rapid repair and restoration, thereby reducing downtime and strengthening operational continuity of critical systems. It will focus on subsea and maritime infrastructure (including maritime vessels), integrating civil and military needs. Research targets fast repair technologies, automated operations, and AI-supported planning for efficient restoration under constraints. By transforming repair into a structured and deployable capability, the centre enhances resilience, defence readiness, and economic security, while positioning Norway as a leading contributor to allied infrastructure protection.

Aktører (tentativt): SINTEF AS, NTNU, FFI, Equinor, Nexans, Gassco, Konsgberg Ferrotech

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365071 – ReFOT-beredskap: Regional mat- og forsyningssikkerhet som del av totalberedskapen

Prosjektleder og prosjektansvarlig: Espen Carlsson (SINTEF Digital)

Sammendrag: ReFOT skal styrke samfunnssikkerhet og beredskap gjennom forskning og innovasjon på regional mat- og forsyningsberedskap, kritiske avhengigheter og sivilt-militært samarbeid. Målet er å gjøre samfunnet mer motstandsdyktig gjennom å styrke regionale forsyningslinjer og operative løsninger for hendelser i krisespekteret. Gjennom modeller for samordnet etterspørsel, beredskapsknutepunkt og robuste forsyningslinjer skal senteret styrke forsvarsevne med økt utholdenhet og sikrere forsyning, og økonomisk sikkerhet gjennom mer robuste verdikjeder. Trøndelag med Fosen blir testarena, der samarbeidsviljen og produksjonskapasiteten er stor, men logistikk, foredling og anskaffelser skaper flaskehalser. ReFOT skal bygge varig nasjonal kapasitet for forskning på regional mat- og forsyningssikkerhet gjennom metodeutvikling, forskerutdanning, standardiserte verktøy og systematisk koordinering med forsknings- og innovasjonsmiljøer nasjonalt og internasjonalt.

Aktører (tentativt): SINTEF Digital, TL, RBB, Nord Universitet HHN, SINTEF Ocean, NTNU IØT, Ørland flystasjon/Forsvaret, Fosenregionen IKPR LokalMat Fosen SA/Mathub Fosen SA, Trøndelag fylkeskommune, Statsforvalteren i Trøndelag, Trøndelag Bondelag, Grønt kompetansesenter/Matnavet, NORDSEC, Hushållningssällskapet (Sv/Fi) Mittuniversitetet,

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364992 – Civil–Defence Research Partnership for Robust Sovereign Navigation and Communication (CDR-NAVCOM)

Prosjektleder og prosjektansvarlig: Bengt Holter (SINTEF Digital)

Sammendrag: The CDR-NAVCOM centre integrates cutting-edge research, large-scale testing and operational preparedness aiming to strengthen Norway's resilience against malicious criminal/state actor disruption of positioning, navigation, timing and communication (PNTC) systems. The centre is to serve as a civil–defence hub that translates identified societal and economic vulnerabilities of attacks against PNTC systems into situational awareness, validated technologies, trained operators and practical solutions for critical infrastructure. The ambition of CDR-NAVCOM is to establish a permanent capability that moves Norway from reactive risk management to anticipatory resilience.

Aktører (tentativt): SINTEF, NTNU, FFI, UiO, Metereologisk institutt, Vrije Universiteit Amsterdam, Nkom, Vegvesenet, Fugro Norway AS, Forsvaret i Finland, Forsvarsmateriell, Andøya Space

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364998 – Norwegian Centre for Cognitive Resilience (NORCORE).

Prosjektleder og prosjektansvarlig: Marte Høiby (SINTEF Digital/FFI)

Sammendrag: The Norwegian Centre for Cognitive Resilience (NORCORE) is a national hub for research, innovation and competence development in cognitive security and societal resilience. Cognitive threats route across institutional boundaries (defence, elections, media, public health, education and the economy) so NORCORE is built to integrate, rather than duplicate, the capabilities discrete sectors already hold. As its analytic object, NORCORE views the cognitive domain as undergoing a structural transformation, rather than only being challenged by instantiated threats. The Centre is organised around three durable national assets: a National Information Environment Observatory; a standing Cognitive Resilience Exercise and Assessment capability for public institutions; and a cleared talent pipeline of PhDs, postdocs and expert competence. Six Work Packages feed these assets, supporting national security priorities, Total Preparedness, NATO's work on cognitive warfare, and European regulatory frameworks.

Aktører (tentativt): SINTEF Digital; FFI, CYFOR; HiØ; OsloMet; IFS; NUPI;, Høyskolen Kristiania; UiS; NTNU Samfunnsforskning;, UiT; Nord Universitet; Østfold AI Hub; Østfold, sykehuset; Gonzo Solutions; Sopra Steria; Faktisk.no;, Vitensenter Innland; Myndigheten för Psykologiskt, Försvar; Lunds Universitet; NATO ACT; NATO, STRATCOM COE.FFI; SINTEF Digital; CYFOR; HiØ;, OsloMet; IFS; NUPI; Høyskolen Kristiania; UiS; NTNU, Samfunnsforskning; UiT; Nord Universitet; Østfold AI, Hub; Østfold sykehuset; Gonzo Solutions; Sopra, Steria; Faktisk.no; Vitensenter Innland; Myndigheten, för Psykologiskt Försvar; Lunds Universitet; NATO, ACT; NATO STRATCOM COE.

365054 – Versatile Autonomous Networked GroUnd and AeRial systems Development

Prosjektleder og prosjektansvarlig: Aksel Andreas Transeth (SINTEF Digital)

Sammendrag: VANGUARD will establish a center for autonomous drone system research and innovation, focused on air and land applications for contested and demanding conditions, for defense, security, and preparedness applications. The center will combine interdisciplinary research with user-driven requirements, experimentation and innovation to enable reliable one-to-many operations and human-supervised autonomous intervention operations. The initiative will strengthen Norwegian defence capability, civil preparedness, and economic security by accelerating transition from research to deployment, procurement, and industrial value creation. A key ambition is to create a national innovation system that connects operators, industry, research organizations, regulators, and defence stakeholders. A final but important aspect is to strengthen national preparedness by contributing to development of supply chains and domestic manufacturing of critical drone technologies and subsystems.

Aktører (tentativt): Trøndelag Heimevernsdistrikt 12, 132 Luftving, Hovedredningssentralen, Statens Vegvesen, Kunnskapsparken Bodø / Nasjonalt Senter for Kritisk Infrastruktur, Aviant AS, Biodrone AS, DK-NEJET Norway AS, Griff, Aviation AS, Hide Industry AS, Norsk Elektro Optikk AS, Rift Dynamics AS, ScoutDI AS, SentiSystems AS, Stellaire, AS, Tunable AS, Carleton University (CAN), Forsvarets forskningsinstitutt, NTNU, Universitetet i Oslo

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365033 – Nordic Defence and Energy Security research centre

Prosjektleder og prosjektansvarlig: Erlend Sandø Kiel (SINTEF Energi)

Sammendrag: NORDEFENS will strengthen defence capability, national resilience, and economic security by developing resilient energy solutions that ensure energy security in crises and war. Energy security, the energy system's ability to deliver energy to end users, is essential for critical civilian and military functions. The centre will address the end user needs for electricity, heat and fuel through state-of-the art energy solutions integrating production, management and distribution technologies. The centre will bring together key actors in the defence and energy sectors, combining research on energy systems with scenario development, resilience and emergency preparedness analysis, and energy solution development. Involvement of civilian and military end user partners in solution development will address urgent short-term needs for implementable solutions, while also tackling long-term energy security challenges and strengthening total defence capabilities.

Aktører (tentativt): SINTEF Energi, Forsvarets forskningsinstitutt (FFI), NTNU, VTT of Finland Ltd, Luftforsvaret, Luftving 132, FLO Stab VKS, Forsvarsbygg, Ministry of Defence, Defence Forces, Defence Estates, Nammo, Statnett, Barentsnett, Arva, Elvia, Lede, Nettselskapet, Glitre Nett, Noranett, Area Nett, Lucerna, Skagerak Energi, Aneo, Eviny, Lunera Energi, Norsk Varme, Norsk Fjernvarme, Hafslund Celsio, Nexans, ABB, Hitachi, Siemens AS (Norway/Germany), EnergiPartner, Norsk e-fuel AS, ENERGOS, Pixii, KiteMill, Trøndelag fylkeskommune, Vestland fylkeskommune, Statsforvalteren i Troms og Finnmark, DNV, NOBIO, Dixi Group (Ukraine), RENERGY, NVE, NSM, DSB, Totalförsvarets forskningsinstitut (FOI), FME Interplay, FME SecurEL

365049 – Centre for Critical Infrastructure Resilience and Military Mobility in the High North

Prosjektleder og prosjektansvarlig: Roy E. Antonsen (SINTEF Narvik)

Sammendrag: RESILIENT NORTH will be a national centre for the protection, resilience and rapid restoration of critical physical infrastructure in the High North. NATO has designated Ofoten as a critical area for reception of allied reinforcements, and Norway, Sweden and Finland are developing cross-border corridors for military mobility through the region. Responding to the National Security Strategy, the National Transport Plan, the Total Preparedness White Paper and the Long-term Defence Plan, the centre combines structural

and railway engineering, condition monitoring, digital twins and AI, corrosion and materials technology, and Arctic environmental expertise in four research areas: resilient transport corridors and military mobility; condition awareness; protection and rapid restoration of structures, roads and bridges, dams and water supply, and railway and port infrastructure; and the Arctic environment and environmental preparedness on land and in coastal snow and ice conditions. The centre is led by SINTEF Narvik with research partners, infrastructure owners, industry, and civil and military users.

Aktører (tentativt): SINTEF Narvik, UiT - The Arctic University of Norway, NORCE, SINTEF Community, SINTEF Nord, LTU, Sweden, Finnmark fylkeskommune, Nordland fylkeskommune, Bane NOR, Jernbanedirektoratet, Narvik Havn, Narvik Vann, Norges vassdrags- og energidirektorat (NVE), Statens vegvesen, Arctic Test Arena, Concrete Innovation Cluster (CIC)

364967 – Senter for mobilisering av sivile marine og maritime ressurser for forsvar, beredskap og økt sikkerhet

Prosjektleder og prosjektansvarlig: Stian Skjong (SINTEF Nordvest)

Sammendrag: Senter for mobilisering av sivile havressurser for forsvar, beredskap og økt sikkerhet skal utvikle ny kunnskap om hvordan Norges sivile maritime og marine kapasiteter kan understøtte forsvarsevne, samfunnssikkerhet og totalberedskap i krise og konflikt. Senteret vil samle forskningsmiljøer, maritim og marin industri, offentlige aktører og forsvarssektoren i et langsiktig samarbeid om havbasert beredskap, dual-use-løsninger, logistikk, blå matberedskap og bruk av sivil infrastruktur i kritiske situasjoner. Senteret skal bidra til styrket norsk økonomisk sikkerhet, økt motstandskraft og utvikling av nye eksportmuligheter for norsk næringsliv. Initiativet bygger på sterke eksisterende klynger og kompetansemiljø i Møre og Romsdal og skal være et nasjonalt kraftsenter, med hovedsete på Nordvestlandet. Senterets geografiske forankring på Nordvestlandet er en forutsetning for å kunne utvikle, teste og operasjonalisere løsninger i tett samspill med en komplett havbasert verdikjede.

Aktører (tentativt): SINTEF Nordvest, NTNU Ålesund, ÅKP AS ved klyngene GCE Blue Maritime Cluster og NCE, Blue Legasea

364960 – ROBUSTMAT – Robust matberedskap fra jord og hav til bord

Prosjektleder og prosjektansvarlig: Ida Grong Aursand (SINTEF Ocean)

Sammendrag: ROBUSTMAT adresserer mat som kritisk samfunnsfunksjon i beredskap. Målet er å styrke Norges matberedskap gjennom forskning på hvordan kritiske forsyningskjeder fra jord og hav til bord kan opprettholde kontinuitet i krise og krig. Senteret tar utgangspunkt i sårbarheter i det norske matsystemet knyttet til geopolitisk uro, importavhengighet, energi, logistikk og manglende samhandling. Gjennom tett samarbeid mellom næringsliv, offentlig sektor, forskning og beredskapsaktører vil senteret utvikle løsninger for å sikre produksjon, foredling og distribusjon av mat under ulike forstyrrelser. Senteret vil særlig analysere: 1) samhandling mellom blå og grønn sektor, 2) Norges rolle i europeisk matsikkerhet og 3) hvordan internasjonal matvarehandel påvirker økonomisk stabilitet. Gjennom scenarioanalyser, pilotering og samarbeid med offentlige og private aktører vil ROBUSTMAT styrke totalforsvaret, øke samfunnets motstandskraft og bidra til økt forsyningssikkerhet nasjonalt og internasjonalt.

Aktører (tentativt): SINTEF Ocean, SINTEF Community, Forsvarets høgskole, Dobrov Institute for Scientific and Technological Potential and, Science History Studies of the NAS of Ukraine, National Agrarian Institute (National University of, Life and Environmental Science of Ukraine, NUBIP), Reitan Retail Innovation, Norsk Kylling, Statens Vegvesen, Heidner Biocluster, Orkland kommune, Sinkaberg, Fiskebåt, Nortura

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365029 – Centre for Innovation in Maritime Total Defence (MarDef)

Prosjektleder og prosjektansvarlig: Svein Peder Berge (SINTEF Ocean)

Sammendrag: The Centre for Innovation in Maritime Total Defence (MarDef) connects stakeholders across sectors (defence, offshore energy, maritime transport, aquaculture, fisheries), and across each sector's technology ecosystems (major end users, large technology suppliers, SMBs, scale-ups and start-ups, trade organisations, research institutes, and universities). Using methods from systems science and organisational research, MarDef will enable the connection and coordination of diverse maritime assets across industry sectors and across the civil-military divide. Through scenario-based examples, MarDef will develop new methods for enhancing collective awareness, preparedness, and response capability. By integrating civilian and military assets in a virtual super-system, the centre will enhance Norway's ability to prevent, detect, and respond to incidents while strengthening the resilience of key ocean industries.

Aktører (tentativt): SINTEF Ocean, SINTEF Digital, SINTEF Industry, NTNU, AQS, Fiskebåt, Ocean Autonomy Cluster, Kongsberg Maritime, Vard Group, The Norwegian Coastal Administration, Proneo (representing the Trøndelag County, Authority as its defence coordinator), Trondheim, Port Authority, University of Plymouth (UK)

364956 – AURA Research Centre (Advanced Utilities Resillience & Awareness)

Prosjektleder og prosjektansvarlig: Tor Neset (Sopra Steria)

Sammendrag: AURA (Advanced Utilities Resilience & Awareness) will address a critical gap in Norway's preparedness landscape: the lack of cross-sector situational awareness and understanding of how events, including hybrid threats, can affect mutually dependent critical infrastructure and critical societal functions. Disruptions in one critical function may cascade across sectors and create consequences that are difficult to detect, attribute and manage. The centre addresses threats from foreign state and non-state actors, as well as accidents, technical failures and natural hazards where causes and consequences may be unclear in the early phases. AURA will strengthen Norway's total defence, societal resilience and economic security, with relevance for the High North and Arctic contexts. The centre will be case study driven and develop methods, models, AI-supported analysis, federated data sharing, testbeds, demonstrators and governance patterns for cross-sector situational awareness and response.

Aktører (tentativt): Sopra Steria, NORCE, SINTEF, Institutt for energiteknikk (IFE), NTNU, FHS, Norwegian Defence Cyber Academy, Norwegian Defence, University College (FHS Cyberingeniørskolen), UiO, VTT (FI), Gassco

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365034 – S3SAW Research Centre — Sovereign Subsea Situational Awareness

Prosjektleder og prosjektansvarlig: Stig Alstedt (Sopra Steria)

Sammendrag: S3SAW will establish a national research centre to develop sovereign AI, sensing and forensic methods needed to protect Norway's critical subsea infrastructure against rapidly evolving hybrid threats. Communications cables, power interconnectors and gas pipelines are civilian assets of national and European criticality, increasingly targeted yet monitored sector by sector with no continuous operational subsea picture. The centre aims to develop sovereign software IP (world models, threat classification, physical and cyber fusion, forensic attribution, escalation governance) that neither static defence nor academic work alone can deliver. Its defining method is a continuous loop with a live operational service: operations supply real Norwegian data, research returns methods that keep the capability ahead of the threat. It strengthens defence capability, societal resilience and economic security, while running as a Norwegian sovereign instance parallel to a French sibling, sharing architecture but not data.

Aktører (tentativt): Sopra Steria, SINTEF, CEA (FR), Maritime Robotics, Blueye Robotics, Norbit, Eelume, Unplugged, Clarify, Gassco

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365023 – Senter for Transport, Robusthet, Nasjonal beredskap, Grensekryssende forsyningssikkerhet og forsvarsevne

Prosjektleder og prosjektansvarlig: Inger Beate Hovi (Transportøkonomisk institutt TØI)

Sammendrag: Senteret skal utvikle kunnskap og beslutningsstøtte for hvordan Norge og Norden kan opprettholde nasjonal beredskap, grensekryssende forsyningssikkerhet og forsvarsevne under langvarige sikkerhetskriser og krig. Prosjektet bygger på en erkjennelse av at Norden fungerer som ett sammenkoblet logistikk- og operasjonsområde, der sivile og militære behov konkurrerer om samme transportinfrastruktur og transportkapasitet. Senteret skal undersøke hvordan kritiske nordiske transportkorridorer fungerer under press, hvordan sivile og militære behov kan prioriteres, og hvordan transport- og forsyningssystemer kan understøtte forsvarsevne, vertslandsstøtte og samfunnets utholdenhet. Gjennom tverrfaglig forskning og samarbeid mellom forskningsmiljøer, forsvarssektoren og transportmyndigheter skal senteret utvikle nye analyse- og beslutningsverktøy, samt operative anbefalinger for planverk, øvelser, investeringer og beredskapstiltak.

Aktører (tentativt): Transportøkonomisk institutt (TØI), Forsvarets forskningsinstitutt (FFI), Forsvarets høgskole (FHS), Lunds Universitet, Forsvarets operative hovedkvarter (FOH), Forsvarets logistikkorganisasjon (FLO), Statens Vegvesen (SVV), Bane Nor, Kystverket

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365022 – Center for Municipal Security and Preparedness

Prosjektleder og prosjektansvarlig: Jaziar Radianti (Universitetet i Agder)

Sammendrag: MuniSafe will be a national research and innovation centre for municipal preparedness, societal security and total defence. It will help municipalities replace static plans with tested, measurable and continuously improving capabilities for crisis, conflict and war. Taking a socio-technical perspective, MuniSafe will examine how municipalities anticipate risks, coordinate actors, sustain critical services, protect residents and recover from disruption. It will combine governance, human decision-making, infrastructure systems, digital technologies, AI, and community capacities. Through five research areas, the centre will develop practical knowledge, tools, living labs, exercises and resilience measures that translate national ambitions into municipal capabilities and shared learning.

Aktører (tentativt): UiA, Univ. of Inland, Vestlandsforskning, Kristiansand, Oslo, Gjerdrum, Øygarden, Åseral, Sogn kommunalt oppgåvefellesskap (SKO), Kartverket, Agder District Home Guard (HV-07), Agder Civil Defence, the Norwegian Communications, Authority (Nkom), Norwegian Directorate for Civil Protection (DSB), KSF, Univ. Linköping

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364824 – Centre for Preparedness, Societal Security, and Health (ComPass-Health)

Prosjektleder og prosjektansvarlig: Esperanza Diaz Perez (Universitetet i Bergen)

Sammendrag: ComPass-Health builds on the Pandemic Centre at UiB and evolves it into a preparedness centre addressing interconnected crises affecting health and society simultaneously. The Centre brings together interdisciplinary research, public authorities, health services, civil society and defence actors to strengthen Norway's capacity to prevent, manage and recover from complex threats. Using health as a cross-cutting analytical lens, ComPass-Health focuses on decision-making under uncertainty, maintaining critical societal functions, and ensuring resilient health systems under disruption, including in grey-zone situations. By integrating systems thinking, scenario-based research and co-production, the Centre addresses interdependencies across sectors and strengthens "totalberedskap" by improving coordination, building adaptative capacity, and translating research into operational practice, with attention to equity, trust and inclusion.

Aktører (tentativt): University of Bergen (UiB) (six faculties represented), NORCE, Haukeland University Hospital, Norwegian Institute of Public Health (FHI), Norwegian Defence Research Establishment (FFI), Statsforvaltaren i Vestland, Norwegian Red Cross, Bergen Municipality, Funksjonshemmedes Fellesorganisasjonen (FFO), Amalie Skram Upper Secondary School, Karolinska Institute

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364991 – Observatory for Risks and Breakthroughs in Innovative Technologies

Prosjektleder og prosjektansvarlig: Morten Fjeld (Universitetet i Bergen)

Sammendrag: The Observatory for Risks and Breakthroughs in Innovative Technologies (ORBIT) will conduct interdisciplinary research on how emerging disruptive technologies influence risk mitigation, decision-making, and operational capability in defence and security contexts. The centre will develop foresight methods, analytical frameworks, and simulation-based approaches to identify technological risks and opportunities at an early stage. By integrating insights from multiple disciplines and sectors, ORBIT will generate knowledge and tools that strengthen situational awareness, coordination, and evidence-based decision-making within the Total Defence system. The ORBIT centre will contribute to enhanced defence capability, economic security, and societal resilience in a rapidly evolving technological landscape.

Aktører (tentativt): UiB (Information and Media, Science, and The Centre for the Science of, Learning and Technology (SLATE)), NTNU (Computer Science Department), NORCE, (Energy and Technology Section), Karlstad, University (Computer Science Department), Royal Norwegian Naval, Academy, Norwegian Defence Command and Staff College, the Norwegian Armed Forces, Country Governor of Western, Norway, Midlaier AS

365006 – Senter for sikker og pålitelig romkommunikasjon

Prosjektleder og prosjektansvarlig: Øyvind Ytrehus (Universitetet i Bergen)

Sammendrag: Moderne romteknologi er nødvendig for å ivareta nasjon sikkerhet, både i sivil og militær sektor. Bruksområdene inkluderer overvåkning (av sivil og militær aktivitet, naturfenomener og kritisk infrastruktur), kommunikasjon (også i situasjoner der bakkebasert kommunikasjon er satt ut av spill), og systemer for PNT (Posisjon, Navigering og Tid). Det er essensielt at datatrafikk mellom bakkestasjoner og satellitter er robust mot ondsinnete angrep og naturens luner. Senter for romkommunikasjon fokuser på å videreutvikle nasjonal ekspertise på å bygge sikre og pålitelige systemer for satellittkommunikasjon, gjennom et samarbeid mellom akademiske miljøer, høyteknologibedrifter, og Forsvaret og andre brukere.

Aktører (tentativt): UiB, Institutt for informatikk, NSM, FFI, Justervesenet, Space Norway, Widenorth, Simula UiB, NTNU, Thales, Cornell University

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365010 – Norwegian Centre for Explosion and Propulsion Science

Prosjektleder og prosjektansvarlig: Trygve Skjold (Universitetet i Bergen)

Sammendrag: The vision of NORCEPS is to establish an interdisciplinary research centre that will support technology development, innovation, and value creation in areas of critical importance for safety and security. The research activities will focus on experimental and numerical investigation of phenomena related to combustion and explosion science: supersonic and hypersonic propulsion; energetic materials (explosives, pyrotechnics, propellants, gaseous fuels, combustible dust, and hybrid mixtures); a wide range of explosion phenomena (deflagration, detonation, shock, and blast); and protective structures and spatial resilience (extreme loading, structural response, safety distances, design methodologies). The centre will conduct state-of-the-art research in areas of combustion and explosion science that are critical for strengthening defence capability, improving the safety and resilience of energy systems in industry and society, and thereby improving Norway's economic security.

Aktører (tentativt): UiB, University of South-Eastern Norway (USN), Norwegian Defence Research Establishment (FFI), Centre National de la Recherche Scientifique (CNRS), Texas A&M University (TAMU), Nammo Raufoss AS (Nammo), Chemring Nobel AS (CHN), Norwegian Ocean Industry Authority (Havtil), DNV Services UK Ltd (DNV Spadeadam)

365039 – Sikring av kritisk infrastruktur i havet

Prosjektleder og prosjektansvarlig: Ingvar Henne (Universitetet i Bergen)

Sammendrag: Senteret fokuserer på å utvikle innovative løsninger for å beskytte Norges maritime infrastruktur, spesielt gitt den økende geopolitiske spenningen. Effektiv håndtering ved kritiske hendelser og trusler mot energiforsyning og kommunikasjon forutsetter tett samarbeid, tydelig ansvarsfordeling og informasjonsdeling mellom private aktører, myndigheter og Forsvaret. Metoder for bedre observasjoner, mer pålitelig deteksjon og bedre grunnlag for iverksetting av hensiktsmessige aksjoner er sentrale forskningstema. Senteret vil utforske nye overvåkningsmetoder, inkludert akustiske sensorer og dataintegrasjon fra ulike kilder, og avklare grensesnitt for informasjons utveksling og systemintegrasjon. Arbeidet vil styrke nasjonal sikkerhet og økonomisk stabilitet, og sikre Norges posisjon som energileverandør og ledende aktør innen maritim teknologi og sikkerhet. Tverrfaglig, internasjonalt samarbeid vil ytterligere styrke forskningens relevans og anvendelse.

Aktører (tentativt): UiB, FFI, GCE Ocean Technology, Havindustritilsynet, Imenco, NERSC, NORCE, Sapienza University of Rome, Sjøforsvaret, Sjøkrigsskolen, Tampnet, UiB, University of Trento, WSense

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365042 – Senter for sikkerhetrett (SiR)

Prosjektleder og prosjektansvarlig: Knut Einar Skodvin (Universitetet i Bergen)

Sammendrag: Rettsregler, fra Grunnloven og helt ned til spesifikke forskrifter, er samfunnets viktigste rammeverk og styringsverktøy, også for sikkerhets- og beredskapsarbeid. Sikkerhets- og beredskapsjussen har nå blitt en gjennomgripende og viktig dimensjon av sentrale deler av denne retten: Vi er på vei inn i en situasjon hvor sikkerhet- og beredskapstenkning blir en helt sentral del av den nye normaltilstanden. Likevel mangler det i Norge oversikt og grunnleggende kunnskap om denne dimensjonen av retten, en utfordring Senter for sikkerhetsrett adresserer. Senteret analyserer sentrale rettsområder som er gjennomgående underanalysert, slik som forsvarssektorens rettslige grunnlag, finansiell sikkerhet, prosessrettens funksjonalitet under press og privatrettens utfordringer i krisesituasjoner – også med tanke på reglenes internasjonale dimensjoner. Senteret etablerer et rettsvitenskapelig kunnskapssentrum og det nødvendige kunnskapsgrunnlag for en ny og krevende samfunnssituasjon.

Aktører (tentativt): UiB – Det juridiske fakultet, Institutt for forsvarsstudier, Universitetet i København, DNB Bank ASA, Advokatforeningen, Næringslivets sikkerhetsråd

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365051 – Centre for Viral Immune-Technology and Pandemic Preparedness

Prosjektleder og prosjektansvarlig: Rebecca Jane Cox (Universitetet i Bergen)

Sammendrag: VITPPrep will establish Norway's first interdisciplinary technological laboratory-based preparedness centre for viral immune threats, directly serving Norway's national security strategy of societal resilience and strategic sovereignty. We will establish an enduring laboratory capacity to deliver clinically and policy-actionable immunological data within weeks from the emergence of a novel viral threat. VITPPrep will enable timely, evidence-based deployment of mitigation strategies by providing actionable data on disease risk and immune protection across population strata, supporting rational prioritisation when medications or vaccines are scarce. VITPPrep will strengthen Norway's societal resilience to the next viral threat; protecting the population, translating research into preparedness policy at speed, and reducing the threat that pandemics pose to life and health, positioning Norway as a global leader in pandemic-ready immune technology.

Aktører (tentativt): Haukeland University Hospital (HUH), University of Bergen (UiB), Oslo University Hospital (OUS), University of Oslo (UiO), Norwegian Veterinary Institute (VI), Norwegian Institute of Public Health (NIPH), Western Norway University of Applied Sciences (HVL), Haraldsplass Deaconess Hospital (HDS), Bergen Municipality (BK), AstraZeneca, Moderna, Ignaz Semmelweis Institute (ISI), Austria

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364943 – Bioshield – AI-driven biotechnology for defence and security

Prosjektleder og prosjektansvarlig: Marianne Fyhn (Universitet i Oslo)

Sammendrag: The convergence of AI and biotechnology (biotech) is reshaping the global security landscape, offering revolutionary opportunities in medicine while introducing unprecedented risks of misuse. Bioshield will establish a national center for the responsible development of AI-driven biotech for defense and security, integrating basic research, technology development, ethics, and preparedness. The center will build sovereign capability across the three priorities of the national security strategy: defense capability (AI-driven bio-design, predictive models of synthetic biological systems); societal resilience (rapid platforms for gene therapies, biological threat preparedness); and economic security (sovereign IP, reduced foreign dependence, a pipeline of security-cleared researchers). Bioshield will build capacity by educating a cohort of interdisciplinary, biosecurity native researchers and act as a unifying force linking academia, defense, civil preparedness and industry.

Aktører (tentativt): University of Oslo, Norwegian Defence Research Establishment (FFI), Simula

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364958 – OPERA: Centre for Operator Performance, Resilience and Adaptation

Prosjektleder og prosjektansvarlig: Ulysse Côté-Allard (Universitet i Oslo)

Sammendrag: OPERA focuses on a simple but increasingly critical challenge: modern high-stakes operations demand more from human operators than human cognition and motor capacity can reliably deliver. Across defence and civilian domains, individuals must process growing volumes of information, make rapid decisions, and interact with complex systems under stress, fatigue, and time pressure. The most demanding situations are not always the acute peaks, where actions are well rehearsed, but prolonged operations under partial information, ambiguous criteria, and moral distress. OPERA spans the full arc: objective markers of readiness before deployment, real-time estimation of operator state and adaptive support during the event, and biomarker-guided recovery protocols afterwards. The centre is dual-use by design, with parallel work in defence (mounted/unmounted operators, command cells) and civilian settings (emergency medicine, air traffic control, psychiatric care).

Aktører (tentativt): University of Oslo - Department of, Technology Systems, Forsvarets sanitet, Norwegian Defence Research Establishment (FFI), Norwegian Army (Hærens våpenskole), Norwegian Search and Rescue Service, Sunnaas Rehabilitation Hospital, Oslo University Hospital, Haukeland University Hospital, University of Bergen, Forsvarsmateriell

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364963 – Norsk nettverk for sikkerhetsrelatert satellittvirksomhet (NorSatNet)

Prosjektleder og prosjektansvarlig: Torbjørn Skauli (Universitet i Oslo)

Sammendrag: NorSatNet vil være et nettverk for sikkerhetsrelatert forskningssamarbeid i norsk romsektor. Eksisterende romaktivitet, inklusiv satellitter i bane, vil brukes som verktøy for å gjøre ny forskning. Styrking av konkurransekraften til norsk romindustri vil være et overordnet mål. Forskningstemaene vil tentativt være: sikring av romsystemer, beredskap i maritim overvåking, sikker navigasjon og tid, romovervåking, sikker satellittkommunikasjon og elektronikkutvikling. Ikke minst vil NorSatNet være en møteplass for sikkerhetsrelatert romvirksomhet i Norge, med lukkede graderte fora og seminarer. Deler av arbeidet vil også bli publisert åpent, blant annet gjennom doktorgradsarbeider. Rekruttering til romsektoren er et overordnet mål, herunder å bidra til å rekruttere unge inn i realfagsrelaterte studier.

Aktører (tentativt): Universitetet i Oslo - Institutt for teknologisystemer, Forsvarets forskningsinstitutt, KONGSBERG, Eidel AS, Space Norway, Andøya Space, Integrated Detector Electronics AS, Institutt for energiteknikk, NTNU, Universitetet i Bergen, UiT Norges arktiske universitet

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364986 – Library Verify

Prosjektleder og prosjektansvarlig: Andrea Alessandro Gasparini (Universitet i Oslo)

Sammendrag: The Center "Library Verify" is based on academic libraries. It supports research, innovation, and safe knowledge sharing for AI and security. A key goal is to strengthen Norway's societal and economic security. Libraries will give access to reliable, interdisciplinary research on security and resilience. They will curate and preserve critical data and documents for policy and research. The Centre will be a neutral meeting place for academia, authorities, industry, and civil society. It will test and develop new services using technologies like AI and quantum computing. The Centre addresses risks from AI generated misinformation and fake references. It promotes responsible data use, transparency, and information integrity. By doing this, it aims to increase trust, crisis-readiness, and societal resilience.

Aktører (tentativt): University of Oslo library, UiT The Artic University of, Norway, Forsvarets høgskole, University of Urbino, (Italy), University of Turku (Finland)

365026 – Resilient Networks for Energy and Communication

Prosjektleder og prosjektansvarlig: Mathias Hudoba de Badyn (Universitet i Oslo)

Sammendrag: RESNET will establish a national research centre for cyber-physical resilience in contested and degraded operating environments. The centre will integrate communications, control, cybersecurity, and positioning/navigation resilience to support defence capability, societal security, and preparedness. Two initial demonstrators anchor the research thrusts: islanded microgrids for defence estates and GNSS denied multi-agent autonomous systems. The centre's scientific contribution is to move from fragmented hardening measures toward evidence-based co-design of network topology, estimation, control, and security mechanisms across the full system architecture. Its practical contribution is to turn Norwegian infrastructure and test environments into a repeatable pipeline from theory to field validation, procurement support, and operator training.

Aktører (tentativt): University of Oslo (UiO), Norwegian Defence Research Establishment (FFI), Institute for Energy Technology (IFE), Lillestrøm Kommune (LK), Norwegian University for Life Sciences (NMBU)

365050 – Centre for Clearance of Legacy Explosives, Ammunition and Remnants (CLEAR)

Prosjektleder og prosjektansvarlig: Tønnes Frostad Nygaard (Universitet i Oslo)

Sammendrag: Norway holds hundreds of thousands, possibly over a million, tonnes of WWII explosive remnants of war: dumped ammunition, sea mines, war wrecks, unexploded ordnance on land and the seabed, and chemical warfare agents. On the 5th of May 2026, the Storting unanimously instructed the Government to deliver in 2026 a national overview and concrete clearance plan. The problem today is handled ad hoc, responsibility fragmented across at least six ministries, and recent FFI research shows key wartime explosives become more sensitive with age. CLEAR will establish a national centre for robotic platforms, advanced sensing, and risk, environmental and decision-support methodology. The aim is safer, faster and more predictable clearance across Norwegian terrain, freshwater and coastal waters. The centre will supply the evidence base for the Storting's mandate and position Norwegian actors for international leadership in humanitarian mine action.

Aktører (tentativt): Universitetet i Oslo (UiO), Forsvarets forskningsinstitutt, (FFI), Norges Geotekniske Institutt (NGI), OsloMet, Norsk, Folkehjelp, Forsvaret (Ingeniørskolen, Hærens våpenskole)

365059 – Nasjonalt senter for evaluering av helsetjenesteberedskap

Prosjektleder og prosjektansvarlig: Eline Aas (Universitet i Oslo)

Sammendrag: Nasjonalt senter for evaluering av helsetjenesteberedskap (SEHB) skal utvikle et evidensbasert rammeverk for systematisk evaluering og prioritering av tiltak som styrker helsetjenestens kapasitet og robusthet under krise. Senteret adresserer alle tre prioriteringene i nasjonal sikkerhetsstrategi: det styrker forsvarsevnen gjennom bedret innsikt i sivilt-militært samarbeid knyttet til personell og kapasitet under kriser, gjør samfunnet mer motstandsdyktig ved å identifisere kostnadseffektive beredskapstiltak, og styrker Norges økonomiske sikkerhet ved å analysere forsyningssikkerhet for legemidler og medisinsk utstyr. Norge er særlig eksponert som ikke-EU NATO-medlem med begrenset egenproduksjon og avhengighet av komplekse og sårbare forsyningskjeder. SEHB kombinerer samfunnsøkonomiske analyser, simuleringsmodeller og preferansebaserte analyser i et nordisk samarbeid med Sverige og Danmark, og gir beslutningstakere et konkret grunnlag for å svare på: Hvordan sikre riktige ressurser til riktig sted til rett tid?

Aktører (tentativt): Universitetet i Oslo (UiO), Helse Sør-øst, kompetansesenter for Helsetjenesteforskning (HØKH), Folkehelseinstituttet (FHI), Forsvarets logistikkorganisasjon (FLO), Oslo universitetssykehus (OUS), Direktoratet for medisinske produkter (DMP), Gøteborg, universitetet (GU), Sverige og Syddansk Universitet (SDU), Danmark

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365075 – TRACE – Centre for Trustworthy Robotic Autonomy in Crisis and Contested Environments

Prosjektleder og prosjektansvarlig: Anis Yazidi and Audun Jøsang (Universitet i Oslo)

Sammendrag: TRACE will build the science of trustworthy collective autonomy: uncrewed systems that an operator directs in plain language, that reason about crises and infrastructure they were never programmed for, explain their actions, and keep working when units, communications and satellite navigation fail. Autonomous systems today are scalable but cannot reason, or can reason but neither scale nor stay reliable. TRACE poses the gap between them as a problem of consensus and builds a single verifiable architecture across it. The centre brings together national research in multi-agent learning, robotics, secure distributed learning, sensing, human–AI interaction and technology ethics with civil-protection, rescue and critical-infrastructure users, the defence research community and the uncrewed-systems industry. TRACE strengthens societal preparedness and, through a dual-use core, national defence.

Aktører (tentativt): University of Oslo - Department of Informatics, Statens Vegvesen, SINTEF

365077 – Centre for Nuclear Security and Societal Preparedness (NUSEC)

Prosjektleder og prosjektansvarlig: Sunniva Siem (Universitet i Oslo)

Sammendrag: The Centre for Nuclear Security and Societal Preparedness (NUSEC) will establish a national research and competence hub for nuclear security, preparedness and societal resilience. Hosted by the University of Oslo through the Norwegian Nuclear Research Centre (NNRC),and developed in partnership with NMBU and IFE,the centre responds directly to the increasing importance of preparedness, security and resilience highlighted in the Government's Total Preparedness Reportand the white paper "Forberedt på kriser og krig" as well as increasing risk of nuclear and radiological emergencies in the current geopolitical environment. NUSEC will integrate expertise in nuclear science, security studies, preparedness systems, digital technologies and societal resilience to strengthen Norway's ability to anticipate, prevent, manage and recover from nuclear, radiological and hybrid threaths. The centre will provide knowledge, technologies, training and decision support capabilities that strengthen defence capability, societal security and national preparedness

Aktører (tentativt): University of Oslo - Norwegian Nuclear Research Centre (NNRC), Norwegian University of Life Sciences (NMBU), Institute for Energy Technology (IFE)

364953 – Centre for Strategic Risk Analysis and Total Defence Resilience

Prosjektleder og prosjektansvarlig: Kjell Hausken (Universitet i Stavanger)

Sammendrag: The centre will develop strategic risk analysis for Norway's total defense by combining probabilistic risk analysis and game theory (Hausken, 2002), attacker-defender modeling for infrastructure protection (Hausken, 2007), reliability analysis (Hausken, 2008a), stochastic theory, cyber security and data-driven decision support. It addresses compound and hybrid threats that connect military defense, critical infrastructure, logistics, cyber-physical systems, societal preparedness and economic security. Building on Hausken's research profile of 294 peer-reviewed publications across game theory, risk analysis, reliability, cyber security, defense, terrorism, war and stochastic theory, the centre will create portable methods, simulation tools, dashboards, training and policy advice for civil-military preparedness. The centre will strengthen Norway's defense capability, societal resilience and economic security through interdisciplinary research, national collaboration, and NATO/EU-relevant scientific excellence (Hausken et al., 2024, 2025).

Aktører (tentativt): UiS risk, safety and security research environment,, proposed national partners to be confirmed:, Norwegian Armed Forces, Norwegian Defence, Research Establishment (FFI), civil preparedness, authorities, infrastructure operators and relevant, industry partners, and international scientific, advisors/collaborators.

364973 – Infrastructure for Additive Manufacturing Preparedness (I AM PREPARED)

Prosjektleder og prosjektansvarlig: Vidar Hansen (Universitet i Stavanger)

Sammendrag: I AM PREPARED (Infrastructure for AM Preparedness) skal etablere et tverrfaglig senter som utvikler kunnskap og løsninger for bruk av additiv produksjon (AM/3D-printing) som beredskapsressurs når tradisjonelle forsyningskjeder svikter. Senteret vil forske på hvilke kritiske komponenter som kan produseres additivt, hvilke materialer og teknologier som er egnet, og hvordan kvalitetssikring og sporbarhet må ivaretas for at slike deler skal være pålitelige i krise- og forsvarssammenhenger. Forskningen kombinerer materialteknologi, beredskapslogistikk, helserelatert AM, og krisekommunikasjon i et samarbeid mellom UiS, UiA, industripartnere og ukrainske forskningsmiljøer med førstehånds krigserfaring. Målet er å gi Norge en kunnskapsbasert beredskap for lokal, fleksibel produksjon av kritiske komponenter innen forsvar, infrastruktur og helse.

Aktører (tentativt): Universitetet i Stavanger, Universitetet i Agder, Mechatronics Innovation Lab, STAMAS AS, National Academy of Sciences of Ukraine, Helmholtz Institute Freiberg for Resource Technology, Luxembourg Institute of Science and Technology

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364996 – RISE: Centre for Resilience in Integrated Systems for Emergencies in health and defence

Prosjektleder og prosjektansvarlig: Siri Wiig (Universitet i Stavanger)

Sammendrag: Resilience is fundamental for navigating emergencies such as pandemics, armed conflicts, and political instability. Healthcare services must adapt to all crises – in war and peace. However, systems need to be integrated with defence, health, municipalities and universities to maintain resilient. Strengthening resilience is therefore essential for maintaining operations, ensuring sustainability and effective handling of emergencies. The vision of the RISE Centre is a future where healthcare and defence systems are integrated and inherently resilient - equipped with preparedness, adaptability, and capacity to anticipate, withstand, and evolve through adverse events and emergencies, ensuring safe and sustainable health services. The groundbreaking nature of RISE lies in its integration of emergency understanding; operational training across healthcare systems and education, and defence; predicative models and organisational learning into a coherent and actionable framework for integrated health preparedness.

Aktører (tentativt): Universitet i Stavanger, Stavanger University hospital (SUS), Oslo University hospital (OUS), NTNU Gjøvik, Norwegian Air Ambulance (SNLA), Sola municipality, Laerdal Medical, Hanken Business School, University of Iceland, Forsvarets Sanitet (FSAN)

365005 – INFRASEC - Centre for Security of Critical Energy Infrastructure

Prosjektleder og prosjektansvarlig: Øystein Lund Bø (Universitet i Stavanger)

Sammendrag: INFRASEC will be a national research and innovation Centre strengthening the security and resilience of Norway's distributed energy infrastructure: Gas pipelines, electric power grids and the cyber networks that monitor and control them. By combining leading risk and uncertainty science with advanced multimodal sensing, AI-driven analytics, fast consequence simulation and analysis of evolving safety–security regulation, the Centre will develop new frameworks, methods and technologies for anticipating, detecting and managing compound geopolitical, hybrid and cyber physical threats. Through close collaboration between research institutions, infrastructure operators, regulators and the Armed Forces, INFRASEC will deliver decision-support tools, security clearable competence and strengthened civil–military cooperation, contributing directly to defence capability, societal resilience and economic security.

Aktører (tentativt): UiS, NORSAR, FFI, Kartverket, Gassco, Cyberforsvaret, NATO JWC, George Mason University, Luleå, University, Copenhagen Business School

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365012 – SECURE - Societal Security, Emergency Preparedness & Risk Centre

Prosjektleder og prosjektansvarlig: Sissel Haugdal Jore (Universitet i Stavanger)

Sammendrag: SECURE skal etableres som Norges ledende forskningssenter for samfunnssikkerhet og beredskap. Under ledelse av Universitetet i Stavanger skal senteret samle sterke Aktører (tentativt) for å utvikle forskningsbasert kunnskap og undervisning om forebygging, håndtering og læring fra kriser. SECURE organiseres som et nasjonalt konsortium ledet av Universitetet i Stavanger i samarbeid med NTNU, NMBU, Forsvarets høgskole samt relevante internasjonale forskningsmiljø og andre aktører. SECURE skal være en nasjonal drivkraft for integrasjon mellom forskning, utdanning og operativ praksis. Behovet er akutt: dagens sikkerhetsforskning er fragmentert og utilstrekkelig tilpasset et risikobilde preget av geopolitisk spenning, digitalisering, klimaendringer og sårbar kritisk infrastruktur. SECURE skal utvikle helhetlige modeller for samfunnssikkerhet og totalforsvar, samtidig som senteret adresserer sentrale dilemmaer mellom sikkerhet, demokrati, åpenhet og tillit.

Aktører (tentativt): UiS, NMBU, FORSVARETS HØYSKOLE, NTNU

365043 – CyberAI-Defense: Center for Cyber Defense, Trustworthy AI and Digital Resilience

Prosjektleder og prosjektansvarlig: Ferhat Ozgur Catak (Universitet i Stavanger)

Sammendrag: CyberAI-Defense will establish a national center for cyber defense, trustworthy AI, secure digital systems for digital resilience in the total-defense context. The center will strengthen Norway's ability to prevent, detect, manage and recover from serious cyber and hybrid incidents affecting defense, preparedness and critical societal functions. It will combine research on cyber situational awareness, secure AI, secure software, cryptography, post-quantum security, digital sovereignty, resilience, governance and risk. The center will build national competence through PhD/postdoctoral training, MSc pipelines, professional courses, secondments and civil-military cyber exercises, bringing together research, defense, publicsector, industry and NATO-relevant expertise to support Norway's defense capability, societal resilience and economic security.

Aktører (tentativt): UiS, NATO Joint Warfare Center (JWC), Simula Research Lab, The Norwegian Quantum Software Center (NorQSoft), University of Bergen (UiB) Selmer Center, FHS-Cyberingeniørskolen, Cyberforsvaret, SINTEF Digital

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364955 – Arctic Center for Maritime Operations and Critical Infrastructure with Enhanced Resilience & Security in Multihazard Environments - MARINERS Center

Prosjektleder og prosjektansvarlig: Lokukaluge Prasad Channa Perera (UiT Norges arktiske universitet)

Sammendrag: The main objective of the MARINERS Center is to generate new knowledge, develop advanced methods, and deliver innovative solutions that strengthen Norway's Total Defense capability in relation to maritime operations and critical infrastructure in the Arctic. To achieve this objective, the Center brings together a strong consortium of universities, research institutes, maritime operators, critical infrastructure operators, first and second responders, creating a multidisciplinary platform for research, innovation, and operational implementation.

Aktører (tentativt): UiT The Arctic University of Norway, Nord University, NORCE, Royal Norwegian Naval Academy, SINTEF, Fridtjof Nansens Institutt, Norwegian Coastal Administration, Akvaplan-Niva, Norwegian Sea Rescue Society, American Bureau of Shipping, Telenor Maritime, Equinor, University of Alaska Anchorage, KEMEA - The Center of Security Studies

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364959 – Senter for befolkningsbasert beredskap - Et nasjonalt senter for folkehelse, totalberedskap og motstandsdyktige samfunn

Prosjektleder og prosjektansvarlig: Magritt Brustad (UiT Norges arktiske universitet)

Sammendrag: Senter for befolkningsbasert beredskap skal utvikle kunnskap om hva som styrker og svekker befolkningens robusthet og motstandskraft når viktige samfunnsfunksjoner settes under press. Senteret bygger bro mellom analyser av trusler, scenarioer og sårbarheter på samfunnsnivå og kunnskap om hvordan dette får konsekvenser i befolkningen. Gjennom befolkningsundersøkelser, longitudinelle data, registre og scenariobasert modellering skal senteret utvikle forskning om dynamisk sårbarhet, risikofaktorer og forebyggingspotensial i befolkningen. Et sentralt mål er å forstå hvordan press på matsystemer, helsetjenester og arbeidskapasitet i viktige samfunnsfunksjoner påvirker grunnleggende forutsetninger for god folkehelse, ernæring, tjenestetilgang og mestringsevne i ulike deler av befolkningen. Leveransene skal gi myndigheter og andre beredskapsaktører et bedre grunnlag for forebygging, prioritering og håndtering av kriser, og dermed bidra til styrket totalberedskap.

Aktører (tentativt): UiT Norges arktiske universitet, NTNU / Helseundersøkelsen i Trøndelag (HUNT), NIBIO, Nofima, Forsvarets høgskole, Senter for klinisk dokumentasjon og evaluering (SKDE), Statsforvalteren, Center for Folkesundhed i Grønland/Universitetet i Nuuk, Finska Arbetshälsoinstitutet

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364978 – Q-PATH – Centre for Resilient Photonic Navigation

Prosjektleder og prosjektansvarlig: Olav Gaute Hellesø (UiT Norges arktiske universitet)

Sammendrag: The proposed centre will establish a national initiative on resilient Positioning, Navigation and Timing (PNT) technologies for operation in GNSS-denied environments, addressing growing needs in defense, security, and societal preparedness. The centre will develop next-generation navigation approaches by combining integrated photonics, quantum sensing, and geophysical sensing into a unified framework. UiT will lead the development of photonic integrated circuits (PICs) and novel molecular clocks for compact timing references and ranging. FFI will contribute expertise in NV centre-based quantum magnetometry for geomagnetic sensing and navigation, while SINTEF will support development and scaling of PIC technologies and system integration. UiT will provide expertise in geomagnetic sensing, while Justervesenet contributes on time/frequency. Industrial partners include Kongsberg and Nortek. The Armed Forces will be added through FFI guidance.

Aktører (tentativt): FFI, SINTEF, Kongsberg Defence & Aerospace, SentiSystems, Dept. of Physics and Technology, UiT, Tromsø Geophysical Observatory, UiT, Justervesenet, Nortek

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364989 – ARCSEC: National centre on Advanced Research on Cyber-SECurity

Prosjektleder og prosjektansvarlig: Håvard Johansen Dagenborg (UiT Norges arktiske universitet)

Sammendrag: The centre will research and develop technology and operational expertise for secure, trustworthy, and robust digital infrastructure for modern advanced computing and AI systems that operate 24/7 across the vast distances and dispersed population that characterise Norway. The centre is based on a strong civil-military research cooperation, which includes strong collaboration with relevant industry and public-sector partners exposed to hybrid warfare threats. Agentic AI systems constitute a particularly critical attack surface because they act autonomously against external services and data: a manipulated data source, a compromised tool, or an injected instruction can trigger harmful actions with severe societal consequences. Digital security, trustworthiness, and resilience therefore require verification and control across entire value chains: multi-modal data sources, networks, tools and platforms, computations, models, actions, and personnel.

Aktører (tentativt): UiT, SimulaMet, University of Porto, Portugal, Helse Nord IKT, Forsvarets Forskningsinstitutt (FFI), ATEA Tromsø, Coop Nord

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365004 – Centre for Robust and Resilient Civil–Military Logistics Systems in the High North (REELS-HN)

Prosjektleder og prosjektansvarlig: Mohamad Mustafa (UiT Norges arktiske universitet)

Sammendrag: This proposal addresses a critical challenge for Norway's defence capability and preparedness: ensuring the operational continuity of logistics systems critically reliant on secure energy supply under crisis conditions, including energy disruption, cyber incidents, and hybrid threats. The centre will develop interdisciplinary knowledge, models, and technologies for robust and resilient civil–military logistics systems, integrating energy, transport, and digital infrastructures across port, rail, road, and air domains. It will analyse system interdependencies and cascading failures, and develop secure solutions aligned with EU initiatives such as REPowerEU and NATO priorities on military mobility. Using Narvik as a logistics hub and operational living laboratory, the centre will validate solutions in real-world logistics chains linking the Atlantic to Sweden and Finland. Narvik's role as a gateway for Allied reinforcement ensures direct relevance to NATO operations. The centre will strengthen defence capability, economic security, and societal resilience, positioning Norway as a leader in civil–military logistics resilience in the High North.

Aktører (tentativt): UiT Norges arktiske universitet, Nord universitet, SINTEF, Narvik Havn, Hæren Våpenteknisk Regiment, Bane NOR, University of Vaasa, Finland

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365037 – Centre for Critical Energy Infrastructure

Prosjektleder og prosjektansvarlig: Bjarte Hoff (UiT Norges arktiske universitet)

Sammendrag: This application outlines a research centre focusing on critical energy infrastructure in the arctic region with emphasis on electricity. Modern society is fundamentally dependent on energy, increasingly electricity, to maintain both daily operations and critical societal functions. Access to electricity is essential in all situations—from normal daily life to crises and war. At the same time, the critical infrastructure ensuring this access is highly vulnerable. Extreme weather, sabotage, cyberattacks, hybrid warfare, and other threats, both above and below water, pose increasing risks. The goal is to strengthen national preparedness and security by developing new knowledge, technology, and methods to reduce vulnerabilities in energy systems and ensure stable energy supply under challenging conditions.

Aktører (tentativt): UiT Norges arktiske universitet

365044 – Forskningssenter for legemiddelberedskap

Prosjektleder og prosjektansvarlig: Marius Myreng Haugland (UiT Norges arktiske universitet)

Sammendrag: Norges tilgang til legemidler er sårbar, både i normalsituasjon og krise, grunnet begrenset innenlands legemiddelproduksjon og lagringsstrategier som ikke er tilpasset den nye sikkerhetssituasjonen. Forskningssenter for legemiddelberedskap vil ta for seg legemiddeltilgang under ulike krisescenarier, og utrede hvordan nasjonale kapasiteter kan bidra i krisehåndtering, samt på hvilke områder norsk beredskap bør styrkes. Identifisering av problemer og løsninger skal skje i samarbeid med relevante kompetansemiljøer både internasjonalt, nasjonalt og lokalt, og inkluderer universiteter, legemiddelindustri, regulatoriske myndigheter, Sykehusapotekene, industrielle legemiddel- og bioteknologimiljøer i Tromsø og Bergen, samt farmasøytisk beredskapsansvarlige både sivilt og militært. Innovasjon og forskning vil stå i fokus, med mål om å etablere senteret som en langsiktig kompetansehub innen legemiddelberedskap på nasjonalt nivå.

Aktører (tentativt): UiT Norges Arktiske Universitet, Universitetet i Bergen, Sykehusapotek Nord HF, Direktoratet for medisinske produkter (DMP), Forsvarets logistikkorganisasjon

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365008 – Defence Research Centre for Infrastructure Resilience in Energy, Communication and Transport Systems (DIRECT).

Prosjektleder og prosjektansvarlig: Sashidharan Komandur (Universitetet i Innlandet)

Sammendrag: DIRECT will develop research-based models for resilient critical infrastructure in communication, energy and transport during severe and prolonged national emergencies. The centre addresses how civilian authorities, infrastructure operators and defence-related stakeholders can share information, coordinate decisions and sustain essential services under disruption. Health and education are treated as enabling societal functions: health supports care for critical workers, while education strengthens training, cyber awareness and preparedness. DIRECT will produce new knowledge, simulations and prototypes for secure, adaptable infrastructure and for a unified civilian coordination interface that can be operationalised in defence-related crises.

Aktører (tentativt): University of Inland, University of Oslo, Oslo School of Architecture and Design, SINTEF, IFE, SIMULA, NILU, INNLANDET FYLKESKOMMUNE, ESTONIAN MARITIME ACADEMY (TALTECH), HAFSLUND, NORGES FORSVARS FORENING

365061 – Alertness for Education, Research and Technology (ALERT)

Prosjektleder og prosjektansvarlig: Marit Sletmoen (Universitetet i Innlandet)

Sammendrag: ALERT - Alertness for Education, Research and Technology, skal etableres som et internasjonalt ledende forskningssenter for utvikling av fremtidens beredskap og totalforsvar. Senteret etableres som en hub–node-modell i Innlandet Science Park Elverum, og kobler akademia, forsvar, offentlig sektor og privat næringsliv i en felles samskapingsarena. ALERT utvikler kunnskap og løsninger for mental robusthet, biologisk robusthet og krisehåndtering. Forskningssenteret skal kombinere forskning, testing og implementering i tett samarbeid med operative aktører. Dette bidrar til bedre beslutningsgrunnlag, økt innovasjon og styrket totalberedskap. Sør-Østerdal har en sterk strategisk posisjon med nærhet til sentrale militære miljøer, sivilt beredskapsarbeid og nordisk NATO samarbeid. Regionens tradisjon, Sverige-samarbeid, kompetanse og geografiske fordeler gir et solid grunnlag for et forskningssenter for forsvarsevne, sikkerhet og beredskap

Aktører (tentativt): Universitetet i Innlandet, Klosser Innovasjon, Sør-Østerdal Interkommunale Politiske Råd, Elverum kommune, Åmot kommune, Stor-Elvdal, kommune, Midt-Hedmark brann og redning (MHBR) IKS, RISE – Research Institute of Sweden

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365047 – Arctic Centre for Civil–Military Health Preparedness and Resilience

Prosjektleder og prosjektansvarlig: Stein Olav Skrøvseth (Universitetssykehuset Nord-Norge HF)

Sammendrag: The proposed centre addresses the critical challenge of maintaining safe, coordinated, and clinically sound healthcare during crises and war. Utilising the infrastructure of a university hospital as a dual use testbed bridging civilian and military health systems, the centre supports Norway's National Security Strategy and closes identified gaps in NATO's Medical Action Plan. Its interdisciplinary research programme integrates frontline trauma medicine, cold-climate physiology, secure information systems, and operational crisis logistics. The work spans three research questions: cold climate trauma and prehospital resuscitation, resilient civil-military communication architectures, and dynamic optimisation of casualty flow and evacuation logistics. The centre will deliver standardised clinical protocols, decision-support tools, and validated operational models for total defence that strengthen national digital sovereignty and provide exportable models for allied use.

Aktører (tentativt): Universitetssykehuset Nord-Norge HF (UNN), UiT Norges Arktiske Universitet, Simula Research Laboratory, Forsvarets forskningsinstitutt (FFI), Forsvarets sanitet (FSAN), Nasjonalt senter for e-helseforskning (NSE), SINTEF, NORCE, Mayo Clinic, Tromsø kommune, Narvik kommune, Lærdal Medical, Norway Health Tech, Norinnova, Hæren, MILMED Centre of Excellence/NATO

365016 – Overvåkning og beskyttelse av maritim infrastruktur

Prosjektleder og prosjektansvarlig: Jon Herman Ulvensøen (Universitet i Sørøst Norge)

Sammendrag: Dagens geopolitiske situasjon gir Norge som nasjon noe «nye» utfordringer. Samtidig ser man at smugling og annen økonomisk relater kriminalitet knyttet til grensene våre øker. Det er nå en økende politisk vilje til å gripe fatt i denne utfordringen og det utlyses nå ny midler til forskning på disse temaene. Ved siden av den mere teknologiske delen vil dette også gripe inn områder som ledelse, operative tjenester, utdanning, helse, men også områder som demokrati, informasjonsdeling og rett og slett dagliglivet. Norge har en lang kyst og mye aktiviteter knyttet til kysten og havområdene utenfor. Infrastruktur som havner, havvindmøller, oppdrettsanlegg, kabler, rør og annet er i liten grad overvåket og beskyttet mot uønskede hendelser som smugling, ødeleggelse, terrorisme ol. Klimaendringer gir også en del utfordringer i forhold til den samme infrastrukturen.

Aktører (tentativt): USN, NORCE, Politiet i Sørøst Norge, Drammen Havn, Jotne Conect as, Stinger as, Nortec as, Zephyros marindefence as, Maritime Robotics

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365056 – DUAL-ROC: Centre for Dual-Use Remote Operations and Maritime Autonomy

Prosjektleder og prosjektansvarlig: Christian Hovden (Universitet i Sørøst Norge)

Sammendrag: The DUAL-ROC center will develop and demonstrate how remotely operated and autonomous commercial maritime systems can be safely, securely, and effectively used for defense and total preparedness purposes. Transforming Norway's leading position in maritime autonomy into operational capability, strategic advantage, and increased national and allied security. Creating new operational concepts, safety assurance, and governance that enable rapid, robust maritime support to defense and total preparedness missions using unmanned and optionally crewed vessels (USVs/OCVs) while also validating solutions in realistic use cases for surveillance, critical logistics, and emergency response. Expected outcomes are verified secure architectures and procedures for civil-military coordination, decision-support and situational-awareness tools that support a stronger Norwegian USV ecosystem safeguarding national and economic security.

Aktører (tentativt): USN, SINTEF AS, Massterly AS, Kongsberg Maritime AS (KM), WilNor Governmental Services AS (WGS), Norwegian Defence Research Establishment (FFI), Norwegian Coastal Administration (NCA)

365007 – SAFEFOOD-PREP: Centre for Resilient Blue-Green Food Systems, Biosecurity and Preparedness - sustainable preparedness in a changing threat landscape

Prosjektleder og prosjektansvarlig: Ida Skaar (Veterinærinstituttet)

Sammendrag: SAFEFOOD-PREP is proposed as the national Centre for food and drinking-water security and preparedness, addressing crises that threaten these systems and, in turn, fundamental societal functions, infrastructure, and public health and operative defence capacity. The SAFEFOOD-PREP Centre will unite Nordic research institutions, authorities, industry, defence force and civilians to prevent, detect, manage, and recover from all disruptions “from farm and fjord to fork,” and translate evidence from predictive or descriptive models of existing data, experiments in state of the art facilities and living labs to operational capacity, emergency regulations, and long-term policy.

Aktører (tentativt): Veterinærinstituttet (NVI), Norwegian University of Life Sciences - Faculty of Veterinary Medicine (NMBU-VET)

E-post til prosjekteier

	Prosjekttittel	Prosjektleder	E-post
365054	Versatile Autonomous Networked GroUnd and AeRial systems Development	Aksel Andreas Transeth	Aksel.A.Transeth@sintef.no
364986	Library Verify	Andrea Alessandro Gasparini	a.a.gasparini@ub.uio.no
365075	TRACE – Centre for Trustworthy Robotic Autonomy in Crisis and Contested Environments	Anis Yazidi	ANISY@UIO.NO
364972	Centre for Host-Community Resilience and Preparedness under Military Expansion	Anita Øren	anita.oren@sintef.no
365032	Supply chain Hub for Integrated and Enduring Logistics for Defence, Security and Preparedness	Anne Rønning	anne@norsus.no
365069	Rapid Repair and Restoration of Critical Subsea and Maritime Infrastructures under Hybrid Threats	Antonio Alvaro	antonio.alvaro@sintef.no
365060	Norwegian Centre for Coastal Observing and Decision Support for Defence, Security and Preparedness (nCOD)	Arvid Nøttveit	arno@norceresearch.no
365058	National Research Centre for Infrared Sensor Technology	Astrid Aksnes	astrid.aksnes@ntnu.no
364987	CAMPER – Centre for Advanced Manufacturing and Preparedness for Emergency Response	Bendik Sagsveen	bendik.sagsveen@ffi.no
364992	Civil–Defence Research Partnership for Robust Sovereign Navigation and Communication (CDR-NAVCOM)	Bengt Holter	bengt.holter@sintef.no
365057	Motstandskraft gjennom sikker mat- og vannforsyning i krise og krig	Bent Magne Dreyer	bent.dreyer@nofima.no
365037	Centre for Critical Energy Infrastructure	Bjarte Hoff	bjarte.hoff@uit.no
365041	Centre for Secure Information Architectures for Defence and Preparedness	Carlos Cid	carlos@simula.no
365066	Centre for Operational Readiness in Military and Civil Health and Societal Resilience	Cecilie Våpenstad	cecilie.vapenstad@sintef.no
365056	DUAL-ROC: Centre for Dual-Use Remote Operations and Maritime Autonomy	Christian Hovden	Christian.Hovden@usn.no
365045	Festningsbyen 2.0 - hvordan planlegger og bygger vi framtidens bosettinger ved Norges militære nøkkelpunkt uten voller og murer?	Daniel Johansen	danjo@ntnu.no
365009	Centre for Cognitive Security, Artificial Intelligence and Societal Resilience	Daniel Thilo Schroeder	daniel.t.schroeder@sintef.no
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