



Eesti Teadusagentuur
Estonian Research Council

Teaduse ühisprogrammeerimise algatuste haakumine muude tegevustega

Ülle Must

ulle.must@etag.ee

Teaduse ühisprogrammeerimise algatuste (JPI) seminar

02.04.2015

Prioriteedid

- **Peamine eesmärk on kriisist väljumiseks tõsta konkurentsivõimet, luua töökohti ja toetada majanduskasvu:**
 - Fokusseerides ressursse ümber 12 valdkonna, millel on kõrge majanduskasvu ja innovatsiooni potentsiaal;
 - Jüõuline nn võtmetehnoloogiate toetamine, tagades juurdepääsu rahalistele vahenditele ja uuenduslikele VKEdele
 - avaliku ja erasektori partnerluse käivitamine:
 - Avaliku ja erasektori partnerlus nn artikkel 187
 - Avalik ja avaliku sektori partnerlus nn artikkel 185
 - nn Innovatsioonilõhe vähendamine struktuurifondide abil

Fokusseeritus -tosin valdkonda



Seotus strateegiatega

Jätkusuutlik toiduga kindlustatus

- Ressursitõhusa Euroopa Teekaart
- Euroopa innovatsioonipartnerlus
- Euroopa tarbijakaitse tegevuskava

Ookeanide kasutuselevõtmine

- EU Blue Growth Strategy

Nutikad linnad ja kogukonnad

- Euroopa Innovatsioonipartnerlus

Konkurentsivõimeline madala süsinikusaldusega energia

- Euroopa strateegiline tehnoloogia strateegia kava;
- Energia tegevuskava aastani 2050;
- Vähese süsinikdioksiidiheitega majanduse tegevuskava
- Euroopa strateegiline tehnoloogia strateegia kava;

Energiatõhusus

- Energia tegevuskava aastani 2050;
- Vähese süsinikdioksiidiheitega majanduse tegevuskava

Mobiilsus majanduskasvuks

- Õhusaaste strateegia
- Euroopa 2020
- ELi vähese süsinikdioksiidiheitega majanduse tegevuskava.
- Ökoinnovatsiooni tegevuskava,

Jäätmned

- Tooraine strateegia

Vesi

- Ressursitõhus Euroopa
- Keskkonnaalane tegevusprogramm 2020

Kriisi ületamine

- Euroopa 2020

Katastroofidega toimetulek

- ELi sisejulgeoleku strateegia ja tegevuskava;

Digitaalne julgeolek

- ELi sisejulgeoleku strateegia ja tegevuskava;

Kliima kohanemisstrateegiad

- ELi kodanikukaitse mehhanism

ELi Julgeoleku alane tööstuspoliitika;

ELi Kliima alane kohanemisstrateegia

ELi kodanikukaitse mehhanism

Partnerlused

ELTL artikkel 185-I (endine artikkel 169) põhinevad ühisprogrammid

BONUS

Euroopa ja arengumaade
kliiniliste uuringute
partnerlusprogrammi

Aktiivne ja intelligentne
elukeskkond

Väikeettevõtete TA&I
koostöö toetamise
programm

Euroopa metrooloogia
teadus- ja
arendusprogramm



Ühised tehnoloogiaalgatused (JTI)

Lennundus ja
lennutransport

Innovatiivsed
ravimid

Kütuseelemendid
ja vesnik

Elektroonilised
komponendid ja -
süsteemid

Biotoorainel
põhinevad
tööstusharud

Euroopa
lennuliikluse uue
põlvkonna
juhtimissüsteem

Raudtee algatuse
Shift²Rail



Teadmis- ja Innovatsionikogukonnad (KIC)

Uuendustegevus tervislike
eluviiaside ja aktiivsema
vananemise jaoks

Toorained

Tulevikutoit

Lisaväärtusega tootmine

Linnaline liikuvus

Partnerlused (jätk)

ERA-NET Cofund

2014.a. - 10

2015.a. - 12



Euroopa Innovatsioonipartnerlused (EIP)

Toorained

Vesi

Aktiivne ja tervena
vananemine

Põllumajanduse
tootlikkus ja
jätkusuutlikkus

Targad linnad ja
kogukonnad



Teaduse ühisprogrammeerimise algatused (JPI)

Alzheimer ja
neurodegeneratiivsed haigused

Põllumajandus,
toiduga kindlustatus ja
kliimamuutused

Tervislik
toitumisviis
täisväärtuslikus
eluks

Kultuuripärand ja
globaalsed muutused

Linnastunud
Euroopa

Euroopa
kliimateadmiste
ühendamine

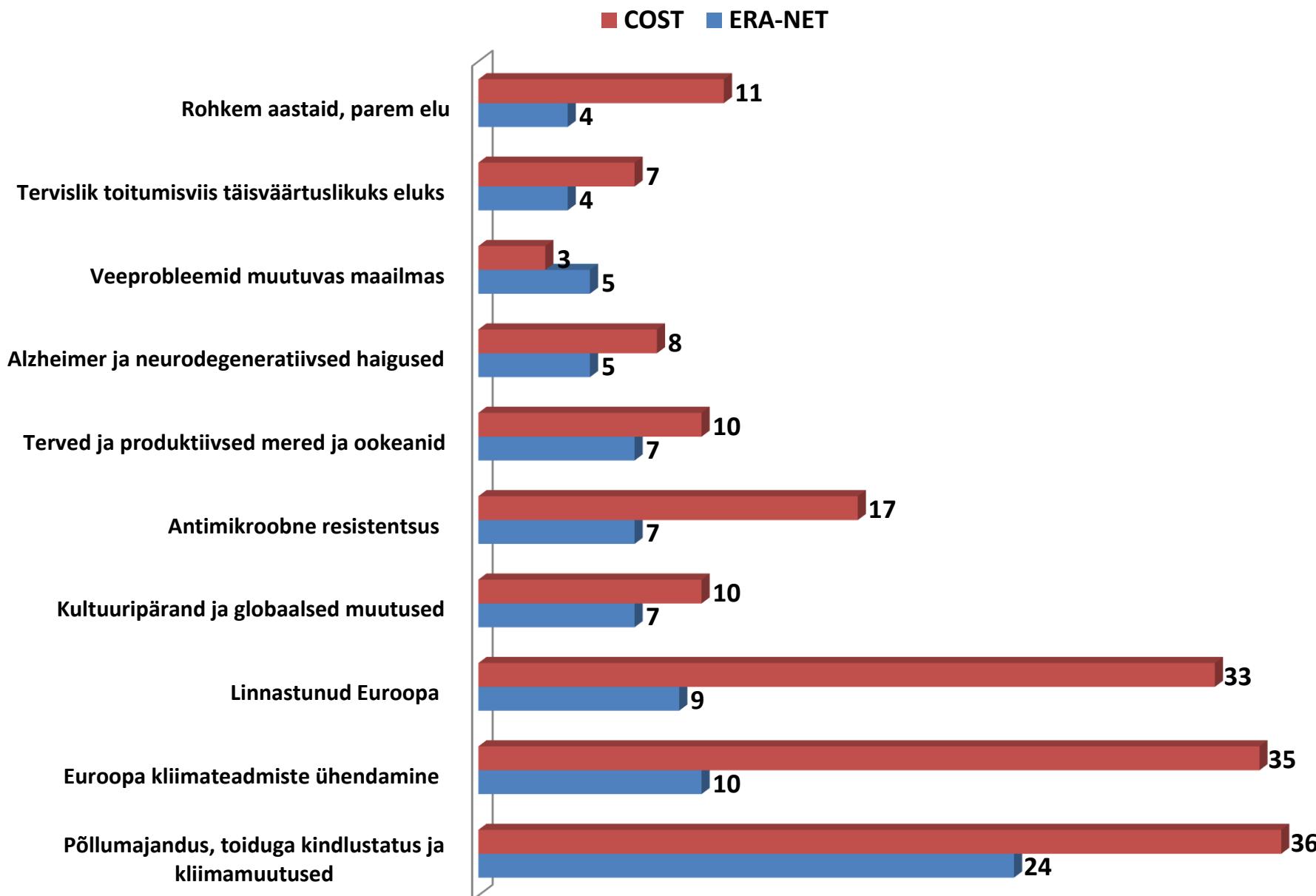
Rohkem
aastaid, parem
elu

Antimikroobne
resistentsus

Veeprobleemid
muutuvas
maailmas

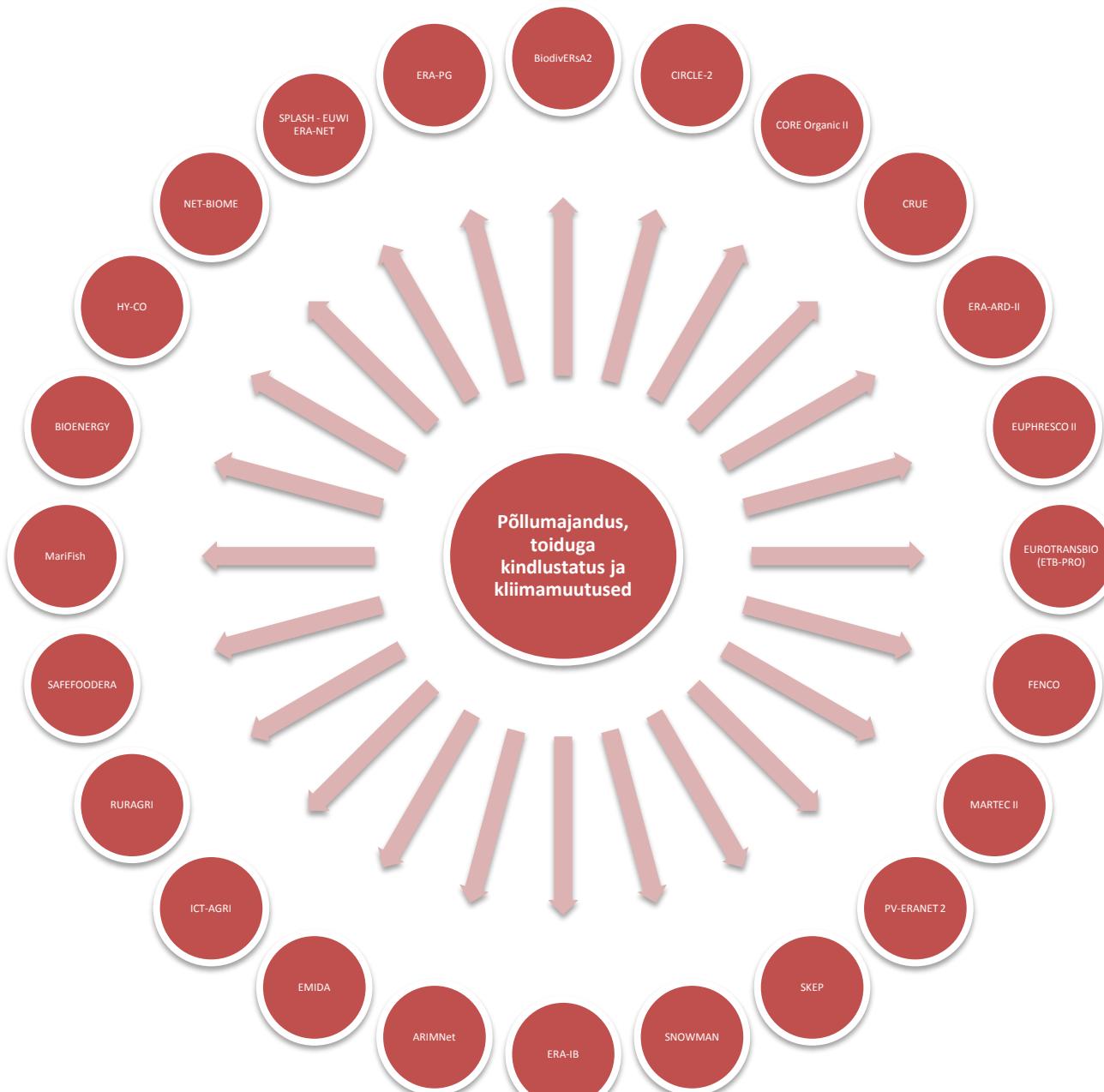
Terved ja
produktiivsed
mered ja
ookeanid

JP1'dega seotud 7RP ERA-NET ja COST

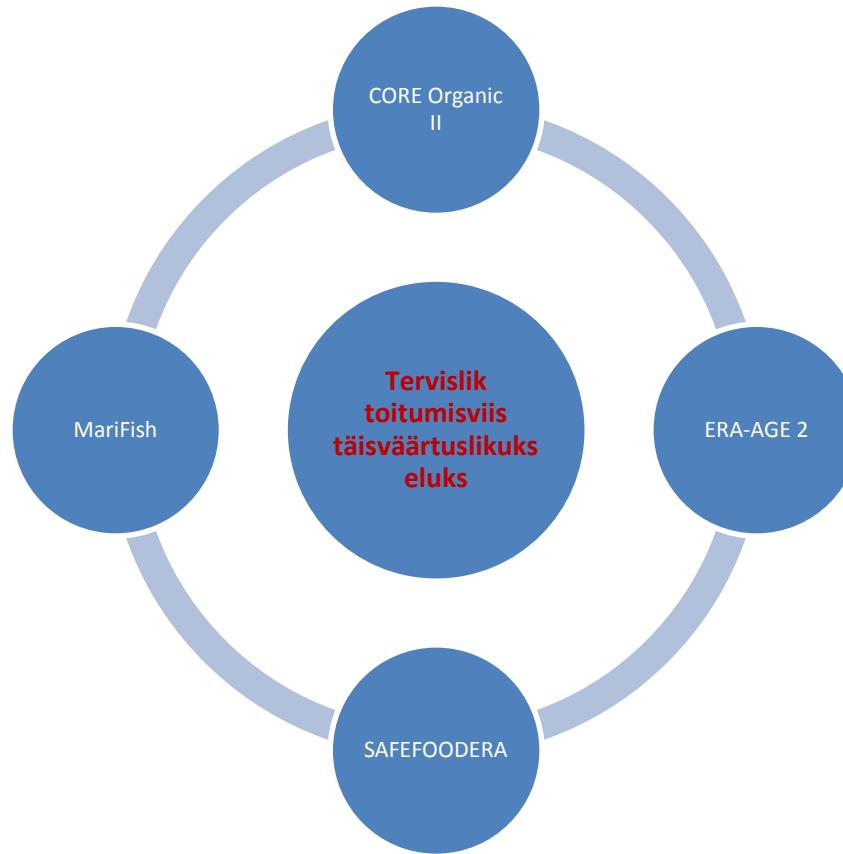


ERA-NET ja ERA-NET Cofund

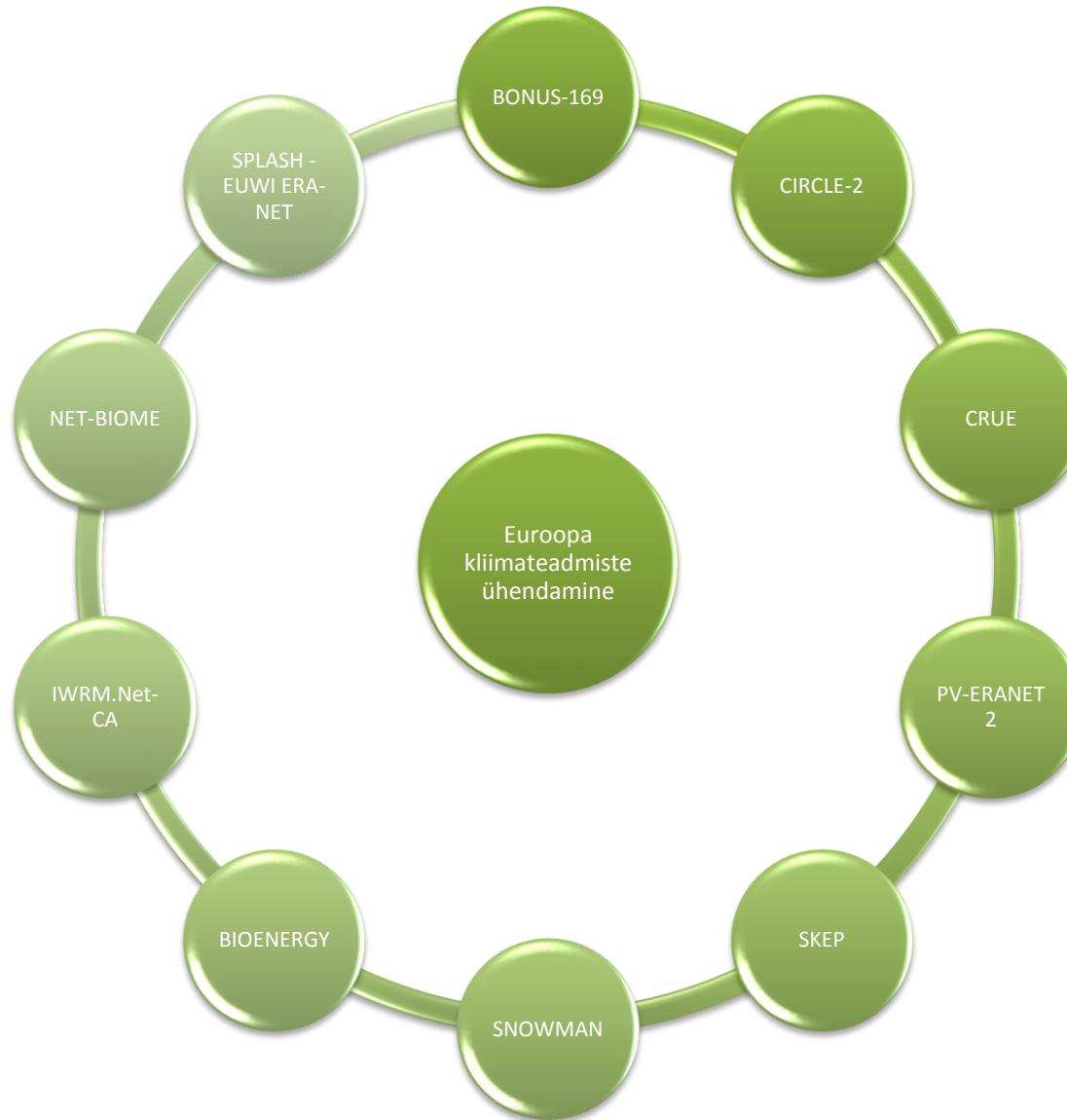
- **Eesmärk** on innustada liikmesriikide teadust rahastavaid organisatsioone korraldama ühiskonkursse ning ühiselt rahastama parimaid koostööprojekte.
- Esimesel konkursil osaleb ka Euroopa Komisjon rahastajana



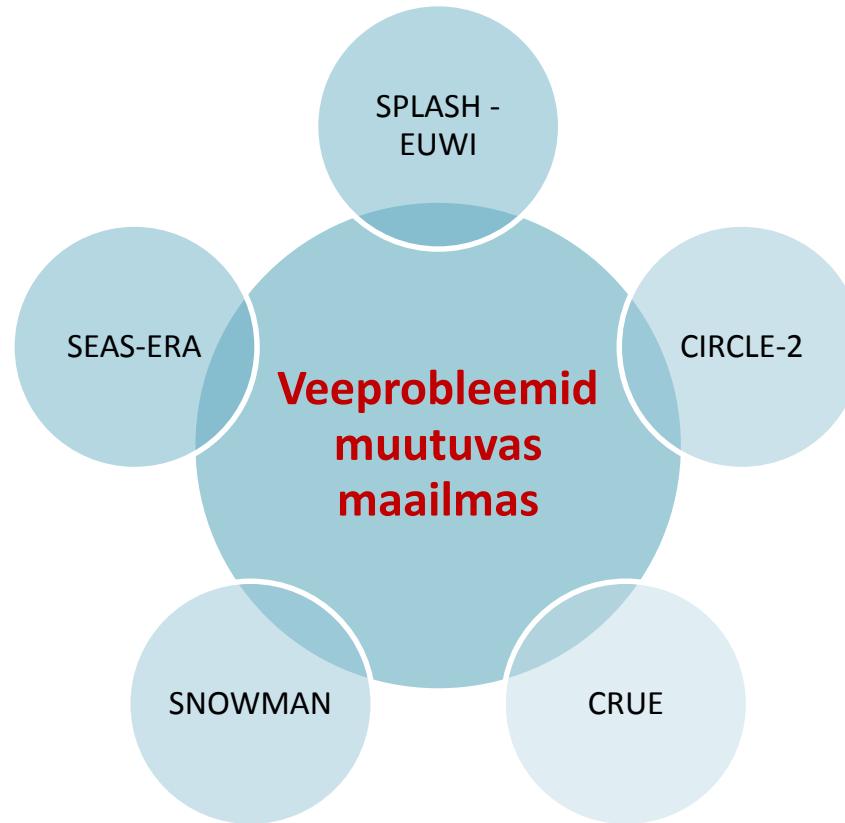
Tervislik toitumisviis täisväärtuslikeks eluks – seotus 7RP ERA-NETdega



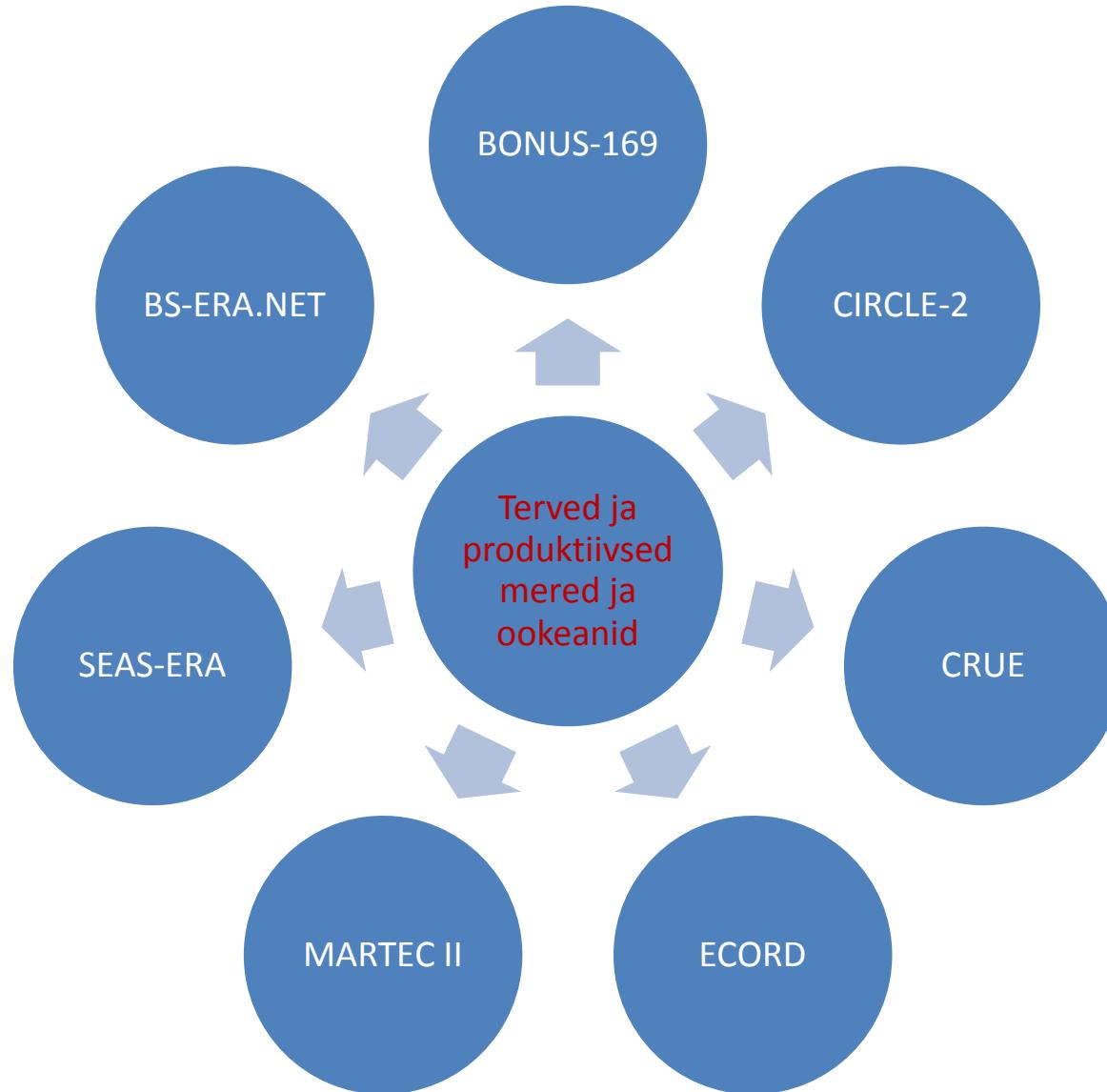
Euroopa kliimateadmiste ühendamine – seotus 7RP ERA-NETidega



Veeprobleemid muutuvas maailmas – seotus 7RP ERA-NETidega



Terved ja produktiivsed mered ja ookeanid – seotus 7RP ERA-NETidega



COST

- **Teaduskoostöö võrgustike projektid (koosolekud, töötoad, seminarid)**
- **Alustavate teadlaste meede**
- **Lühiajaliste teadusmissioonide meede**
- **Konverentsid**
- **Publikatsioonid**

Põllumajandus, toiduga kindlustatus ja kliimamuutused - COST

- **Action CM1406 (2015-2019)** * “Epigenetic Chemical Biology (EPICHEM)”
- **Action ES1406 (2015-2019)** * “Soil fauna - Key to Soil Organic Matter Dynamics and Modelling (KEYSOM)”
- **Action FA1405 (2015-2019)** * “Using three-way interactions between plants, microbes and arthropods to enhance crop protection and production”
- **Action FA1406 (2015-2019)** * “Advancing knowledge on seaweed growth and development”
- **Action FA1407 (2015-2019)** * “Application of next generation sequencing for the study and diagnosis of plant viral diseases in agriculture”
- **Action ES1106 (2012-2016)** “Assessment of EUROpean AGRIculture WATer use and trade under climate change (EURO-AGRIWAT)”
- **Action FA1103 (2011-2015)** “Endophytes in Biotechnology and Agriculture”
- **Action FA1104 (2012-2016)** “Sustainable production of high-quality cherries for the European market”
- **Action FA1105 (2012-2016)** “Towards a sustainable and productive EU organic greenhouse horticulture”
- **Action FA1201 (2012-2016)** “Epigenetics and Periconception Environment - Periconception environment as an epigenomic lever for optimising food production and health in livestock”
- **Action FA1203 (2012-2016)** “Sustainable management of Ambrosia artemisiifolia in Europe (SMARTER)”
- **Action FA1204 (2012-2016)** “Vegetable Grafting to Improve Yield and Fruit Quality under Biotic and Abiotic Stress Conditions”
- **Action FA1206 (2013-2017)** “Strigolactones: biological roles and applications”
- **Action FA1207 (2013-2017)** “Towards Control of Avian Coronaviruses: Strategies for Diagnosis, Surveillance and Vaccination”
- **Action FA1208 (2013-2017)** “Pathogen-informed strategies for sustainable broad-spectrum crop resistance”

Põllumajandus, toiduga kindlustatus ja kliimamuutused - COST

- **Action FA1302 (2013-2017)** "Large-scale methane measurements on individual ruminants for genetic evaluations"
- **Action FA1303 (2013-2017)** "Sustainable control of grapevine trunk diseases"
- **Action FA1305 (2013-2017)** "The EU Aquaponics Hub: Realising Sustainable Integrated Fish and Vegetable Production for the EU"
- **Action FA1306 (2013-2017)** "The quest for tolerant varieties: Phenotyping at plant and cellular level"
- **Action FA1307 (2013-2017)** "SUPER-B: SUstainable Pollination in Europe: joint Research on Bees and other pollinators"
- **Action FA1308 (2013-2017)** "DairyCare"
- **Action FA1404 (2014-2018)** "Improving current understanding and research for sustainable control of the poultry red mite *Dermanyssus gallinae*" (COREMI)
- **Action FP1106 (2012-2016)** "Studying Tree Responses to extreme Events: a SynthesiS (STReESS)"
- **Action FP1201 (2012-2016)** "Forest LAnd Ownership Changes in Europe: Significance for Management And Policy (FACESMAP)"
- **Action FP1204 (2013-2017)** "Green Infrastructure approach: linking environmental with social aspects in studying and managing urban forests"
- **Action FP1205 (2013-2017)** "Innovative applications of regenerated wood cellulose fibres"
- **Action FP1206 (2013-2017)** "European mixed forests - Integrating Scientific Knowledge in Sustainable Forest Management. (EuMIXFOR)"
- **Action FP1301 (2013-2017)** "Innovative management and multifunctional utilization of traditional coppice forests - an answer to future ecological, economic and social challenges in the European forestry sector" (EuroCoppice)
- **Action FP1304 (2013-2017)** "Towards robust PROjections of European FOrests UNDer climate change (PROFOUND)"
- **Action FP1305 (2013-2017)** "BioLink: Linking belowground biodiversity and ecosystem function in European forests"
- **Action FP1306 (2014-2018)** "Valorisation of lignocellulosic biomass side streams for sustainable production of chemicals, materials & fuels using low environmental impact technologies"
- **Action TD1209 (2013-2017)** "European Information System for Alien Species"
- **Action TD1302 (2013-2017)** "European network on Taeniosis/Cysticercosis"
- **Action TD1303 (2013-2017)** "EURNEGVEC - European network for neglected vectors and vector-borne infections"
- **Action TD1404 (2014-2018)** "Network for Evaluation of One Health (NEOH)"

Tervislik toitumisviis täisväärtuslikuks eluks - COST

- **Action BM1402 (2015-2019)** “Development of a European network for preclinical testing of interventions in mouse models of age and age-related diseases (MouseAGE)”
- **Action CM1406 (2015-2019)** “Epigenetic Chemical Biology (EPICHEM)”
- **Action FA1005 (2011-2015)** “Improving health properties of food by sharing our knowledge on the digestive process (INFOGEST)”
- **Action FA1402 (2014-2018)** “Improving Allergy Risk Assessment Strategy for new food proteins (ImpARAS)”
- **Action FA1403 (2014-2018)** “Interindividual variation in response to consumption of plant food bioactives and determinants involved (POSITIVe)”
- **Action TD1302 (2013-2017)** “European network on Taeniosis/Cysticercosis”
- **Action TD1304 (2013-2017)** “Zinc-Net: the Network for the Biology of Zinc”

Euroopa kliimateadmiste ühendamine -COST

- **Action CM1404 (2015-2019)** * “Chemistry of Smart Energy Carriers and Technologies (SMARTCATS)”
- **Action FP1405 (2015-2019)** * “Active and intelligent fibre-based packaging - innovation and market introduction (ActInPak)”
- **Action FP1407 (2015-2019)** * “Understanding wood modification through an integrated scientific and environmental impact approach (ModWoodLife)”
- **Action IC1406 (2015-2019)** * “High-Performance Modelling and Simulation for Big Data Applications (cHiPSet)
- **Action IC1408 (2015-2019)** * “Computationally-intensive methods for the robust analysis of non-standard data (CRoNoS)”
- **Action IS1408 (2015-2019)** * “Industrially Contaminated Sites and Health Network (ICSHNet)”
- **Action CM1202 (2012-2016)** “Supramolecular photocatalytic water splitting (PERSPECT-H₂O)
- **Action CM1203 (2012-2016)** “Polyoxometalate Chemistry for Molecular Nanoscience (PoCheMoN)”
- **Action CM1205 (2013-2017)** “Catalytic Routines for Small Molecule Activation (CARISMA)”
- **Action CM1303 (2013-2017)** “Systems Biocatalysis”
- **Action ES1004 (2011-2015)** “European framework for online integrated air quality and meteorology modelling”
- **Action ES1005 (2011-2015)** “Towards a more complete assessment of the impact of solar variability on the Earth’s climate”
- **Action ES1006 (2011-2015)** “Evaluation, improvement and guidance for the use of local-scale emergency prediction and response tools for airborne hazards in built environments”
- **Action ES1101 (2012-2016)** “Harmonizing Global Biodiversity Modelling (HarmBio)”
- **Action ES1102 (2012-2016)** “VALUE - Validating and Integrating Downscaling Methods for Climate Change Research”
- **Action ES1206 (2013-2017)** “Advanced Global Navigation Satellite Systems tropospheric products for monitoring severe weather events and climate (GNSS4SWEC)”
- **Action ES1207 (2013-2017)** “A European Brewer Network (EUBREWNET)”
- **Action ES1303 (2013-2017)** “TOPROF: Towards Operational ground based PROFiling with ceilometers, Doppler lidars and microwave radiometers for improving weather forecasts”
- **Action ES1305 (2013-2017)** “European Network for the Radar surveillance of Animal Movement (ENRAM)”

Euroopa kliimateadmiste ühendamine -COST

- **Action ES1306 (2014-2018)** “Connecting European connectivity research”
- **Action ES1308 (2014-2018)** “Climate Change Manipulation Experiments in Terrestrial Ecosystems - Networking and Outreach (ClimMani)”
- **Action ES1404 (2014-2018)** “A European network for a harmonised monitoring of snow for the benefit of climate change scenarios, hydrology and numerical weather prediction”
- **Action FP1004 (2011-2015)** “Enhance mechanical properties of timber, engineered wood products and timber structures”
- **Action FP1106 (2012-2016)** “Studying Tree Responses to extreme Events: a SynthesiS (STReESS)”
- **Action FP1202 (2012-2016)** “Strengthening conservation: a key issue for adaptation of marginal/peripheral populations of forest trees to climate change in Europe (MaP-FGR)”
- **Action FP1204 (2013-2017)** “Green Infrastructure approach: linking environmental with social aspects in studying and managing urban forests”
- **Action FP1303 (2013-2017)** “Performance of bio-based building materials”
- **Action FP1304 (2013-2017)** “Towards robust PROjections of European FOrests UNDer climate change (PROFOUND)”
- **Action FP1306 (2013-2017)** “Valorisation of lignocellulosic biomass side streams for sustainable production of chemicals, materials & fuels using low environmental impact technologies”
- **Action FP1404 (2014-2018)** “Fire safe use of bio-based building products”
- **Action IS1007 (2011-2015)** “Investigating Cultural Sustainability”
- **Action IS1101 (2011-2015)** “Climate Change and Migration: Knowledge, Law and Policy, and Theory”
- **Action IS 1309 (2013-2017)** “Innovations in Climate Governance: Sources, Patterns and Effects (INOGOV)”
- **Action TD1105 (2012-2016)** “European Network on New Sensing Technologies for Air-Pollution Control and Environmental Sustainability – EuNetAir”
- **Action TU1401 (2014-2018)** “Renewable energy and landscape quality (RELY)”

Veeprobleemid muutuvas maailmas - COST

- **Action ES1407 (2015-2019)** * “European network for innovative recovery strategies of rare earth and other critical metals from electric and electronic waste (ReCreew)”
- **Action CM1005 (2011-2015)** “Supramolecular Chemistry in Water”
- **Action ES1403 (2014-2018)** “New and emerging challenges and opportunities in wastewater reuse (NEREUS)”

Terved ja produktiivsed mered ja ookeanid - COST

- **Action ES1405 (2015-2019)** * “Marine gas hydrate - an indigenous resource of natural gas for Europe (MIGRATE)”
- **Action ES1001 (2010-2015)** “SMOS Mission Oceanographic Data Exploitation”
- **Action ES1003 (2010-2015)** “Development and implementation of a pan-European Marine Biodiversity Observatory System (EMBOS)”
- **Action ES1301 (2013-2017)** “Impact of Fluid circulation in old oceanic Lithosphere on the seismicity of transfOrm-type plate boundaries: neW solutions for early seismic monitoring of major European Seismogenic zones – FLOWS”
- **Action ES1402 (2014-2018)** “Evaluation of Ocean Syntheses”
- **Action FA1004 (2011-2015)** “Conservation Physiology of Marine Fishes”
- **Action FA1205 (2012-2016)** “Assessing and improving the quality of aquatic animal gametes to enhance aquatic resources - The need to harmonize and standardize evolving methodologies, and improve transfer from academia to industry”
- **Action FA1301 (2013-2017)** “CephSInAction - A network for improvement of cephalopod welfare and husbandry in research, aquaculture and fisheries”
- **Action FA1304 (2013-2017)** “Swimming of fish and implications for migration and aquaculture (FITFISH)”
- **Action IS1403 (2014-2018)** “Oceans Past Platform (OPP)”

**Eduka osalemise tagatiseks on
koostöö, oma ressursside
planeerimine ning kõigi
pakutavate võimaluste
ärakasutamine.**