

Lighthouse seminar:
**Funding possibilities for research and
innovation for the maritime sector**

Programme

8.30 Maritime research and innovation – where are we and where are we heading? -
Åsa Burman, Director, Lighthouse

Zero Vision Tool - *Carl Carlsson, Zero Vision Tool*

Europe Enterprise Network - *Thomas Bräck and Marian Mikheil, Enterprise Europe Network*

InterReg and EU regional fund – possibilities for the maritime sector – *Cecilia Nilsson, Regional Developer, Västra Götalandsregionen*

10.00 Coffee Break

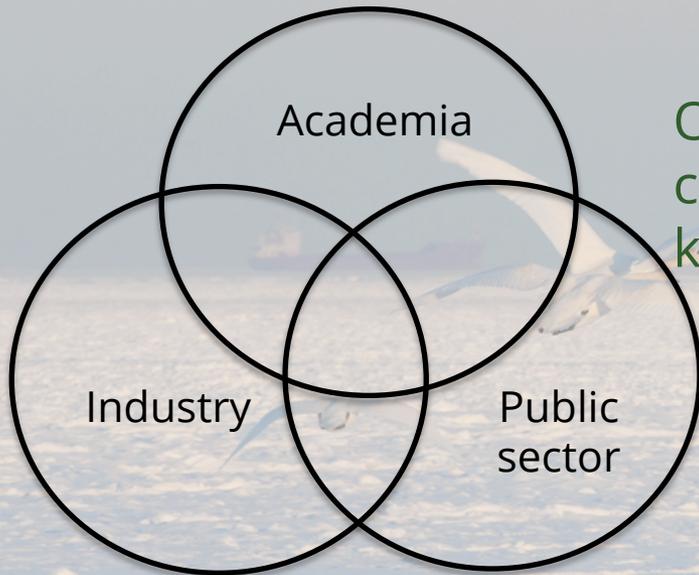
10.30 Horizon 2020 and the maritime area - *Esa Stenberg, National Contact Point for Energi, Transport and Euratom, Vinnova*

11.30 Lunch

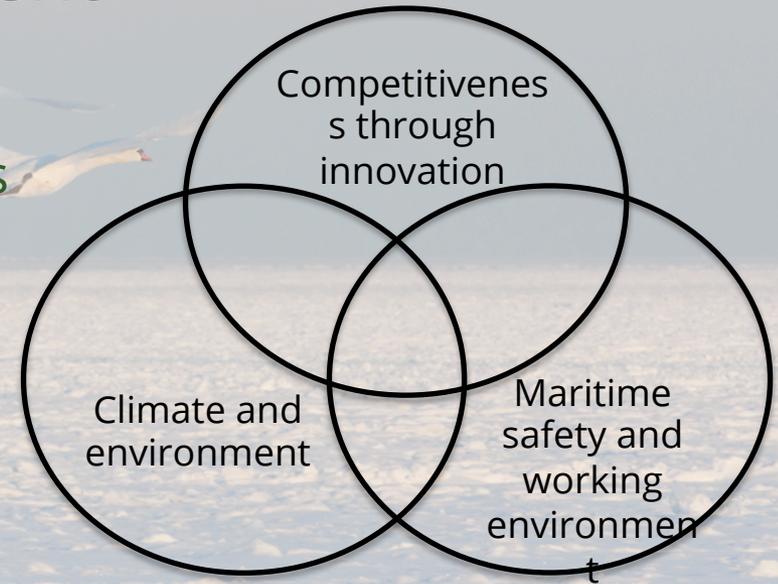


Åsa Burman Director

LIGHTHOUSE – For a competitive, sustainable and safe maritime sector with good working environment



Our strategy –
collaboration is
key!



Maritime research and innovation for the future



Prioritised areas

For the network of Lighthouse, the following areas are crucial in order to reach the vision of Lighthouse and to strengthen maritime competitiveness through innovation and meet challenges within climate change and environment, maritime safety and working conditions. The areas are:

- Integrated transport systems and business models
- Valuation and minimisation of the effects of shipping on climate, environment and human health
- Alternative energy for ship propulsion and energy supply
- Energy efficiency within the maritime sector
- Financial mechanisms supporting the transition to a sustainable maritime sector
- Innovative vessel concepts and naval architecture
- Advanced maritime operations
- Maritime safety and security
- Sustainable working life within shipping
- Maritime informatics

Lighthouse - Swedish Maritime Competence Centre

A triple-Helix collaboration to gather academia and institutes, industry and the public sector for research, development and innovation in the maritime field .

Collaborative research and networking

- To gather academia and institutes, industry and the public sector in the maritime field to define a strategic and challenge-driven focus of research, development and innovation in Sweden

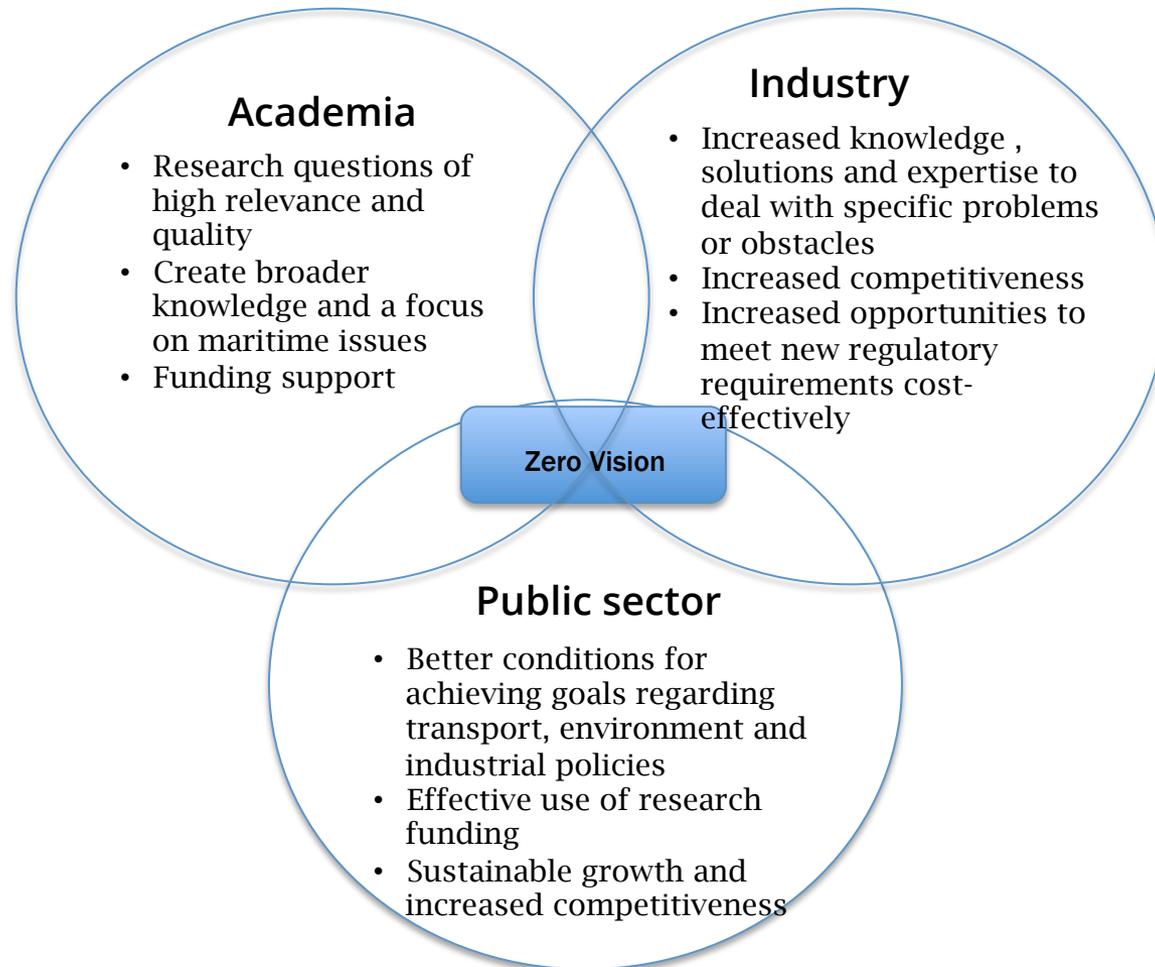
Programmes and funding

- To mobilise support and resources for maritime research, development and innovation programmes, driven by the needs of industry and society

Communication

- To communicate and generate interest in maritime research, development and innovation, and creates forums for academia and institutes, industry and public sector

Values to participants



The way forward

- Research and innovation – increase funding to the maritime sector:



- Demonstration and practice:



- Active support of the work for development of rules and regulations within IMO and EU

Thank you for listening!



UNIVERSITY OF
GOTHENBURG



STIFTELSEN SVERIGES SJÖMANSBUS



SWEDISH MARITIME
ADMINISTRATION



Carl Carlsson – Zero Vision Tool Presentation in PDF



2015-10-28



Företagsrådgivning nära dig

**TILLVÄXT
VERKET**

Boost your international competitiveness

Support for small and medium enterprises on the way to an international market

Marian Mikheil & Thomas Bräck Swerea IVF



Why Enterprise Europe Network?

- Free advice and assistance to small and medium-sized enterprises
- 8000 Swedish companies have been helped the last five years
- Daily contact with colleagues in Europe
- European Commission's initiative to promote Internationalization and business development
- Tillväxtverket is the national coordinator and the main financier

What services do we offer?

- Information and advice
- International business contacts
- Innovation coaching

eenmatch.eu

SEARCH – FIND – CONNECT



Find new business partners



Offer



Request



EU-project



Login

SHARE

The network internationally



Huge internationellt network
– reach more than thousand small companies
via **600** organizations
i more than **50** countries

The Network in Sweden

Strong local and regional support
- available at some 20 locations in
Sweden



14 network partners in Sweden

ALMI
FÖRETAGSPARTNER

Kronoberg, Jönköping,
Mälardalen, Mitt

företagarna



uminova
INNOVATION



BUSINESS REGION
GÖTEBORG

invest in skåne

part of business region skåne

Stiftelsen

Teknikdalen



swerea|IVF

LTU | BUSINESS AB



SWEDISH
ICT
ACREO

TILLVÄXT
VERKET

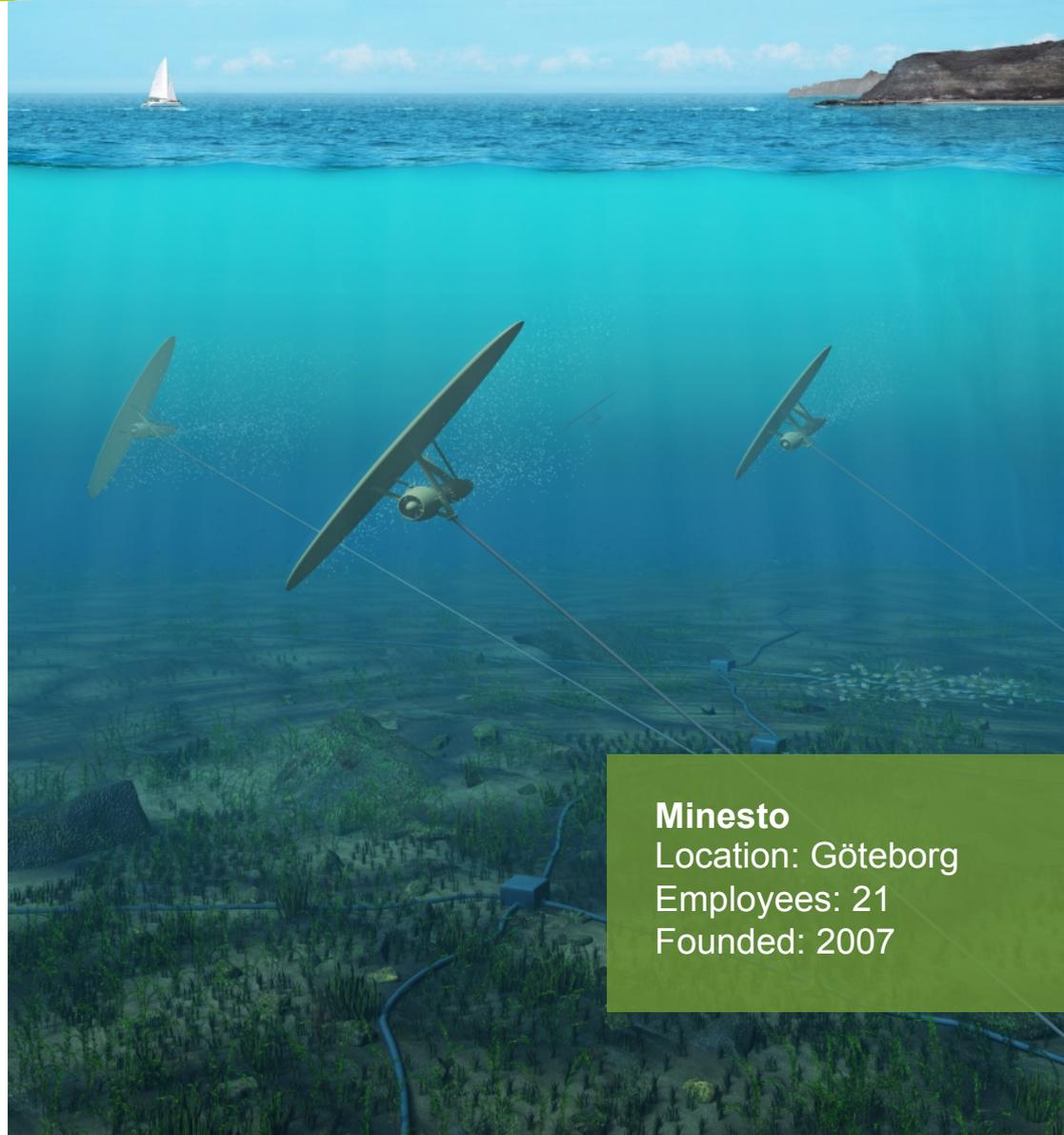
Information and advice

- Find funding opportunities
- Get market intelligence on other countries, such as information on applicable legislation and important trade fairs
- Get answers to individual questions concerning eg CE marking, e-commerce and public procurement

International business partners

- Technical solutions and customers to your technology solutions
- Suppliers and production cooperations
- Distributors, resellers and agents
- Partners for research projects

- Public procurement information
- EU-project



Minesto

Location: Göteborg

Employees: 21

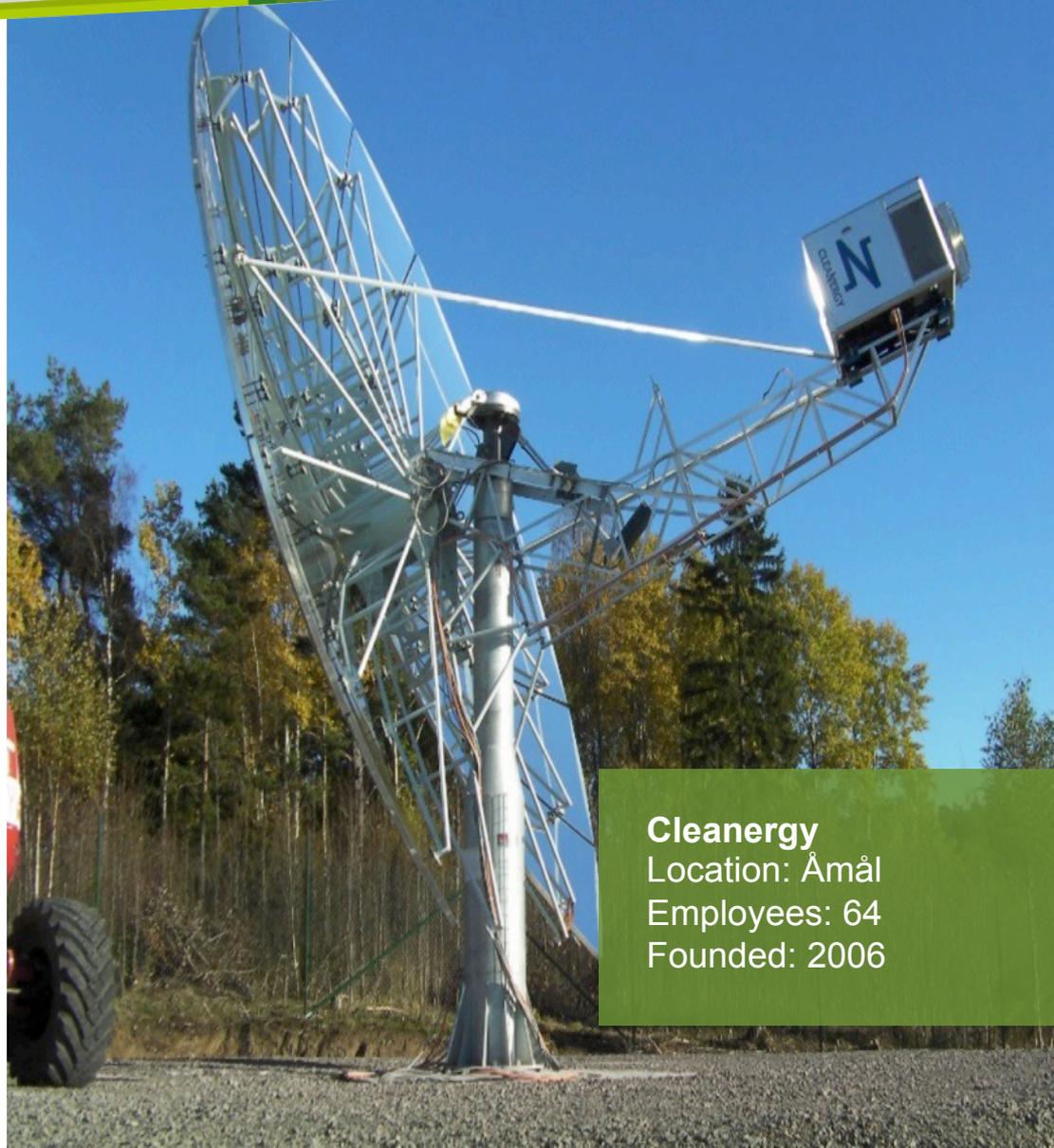
Founded: 2007

**TILLVÄXT
VERKET**



- Technical cooperation
- Financing
- EU-project
- Coach within SME Instrument

**TILLVÄXT
VERKET**



Cleanergy
Location: Åmål
Employees: 64
Founded: 2006

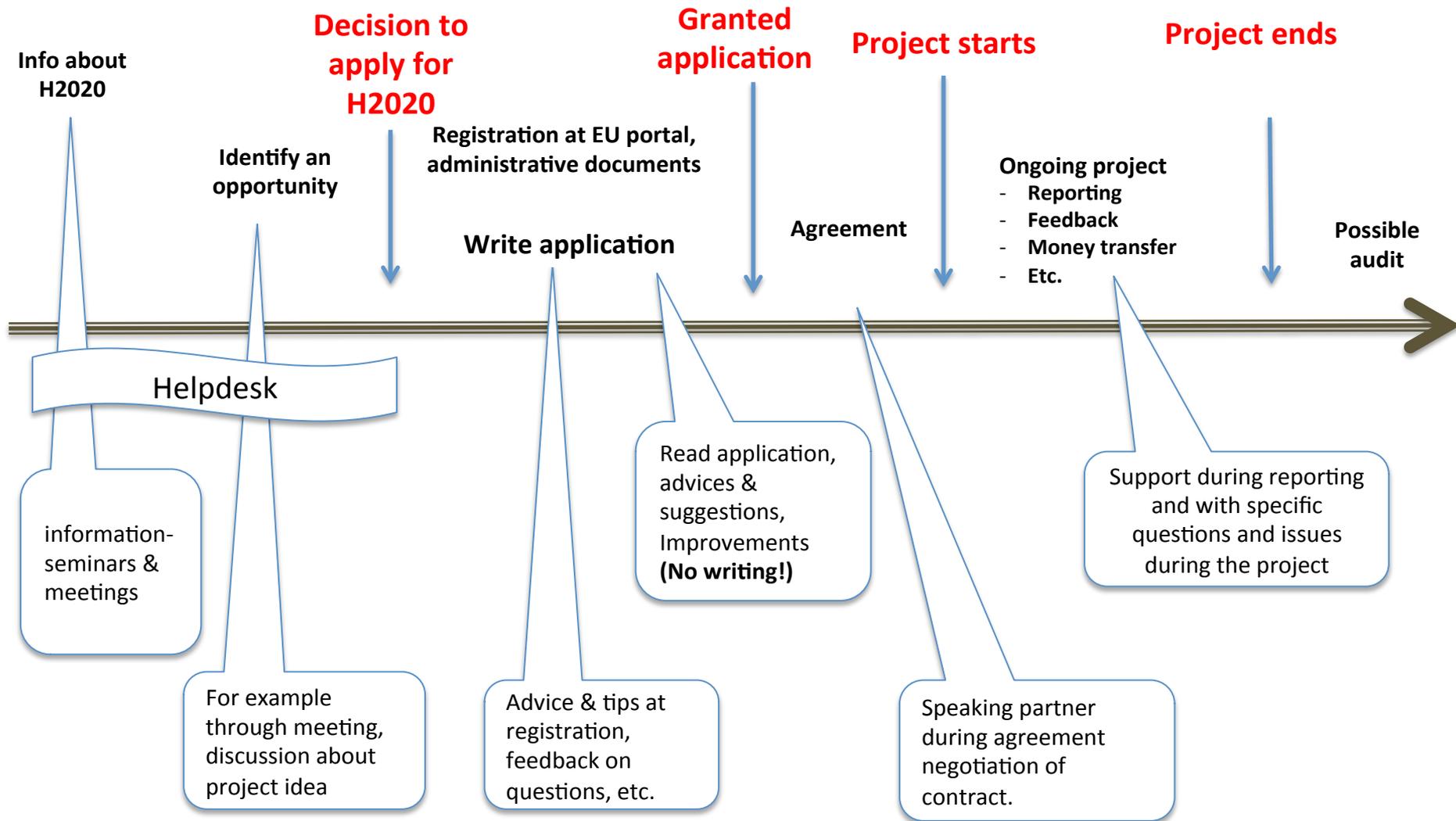
Innovation coaching

We provide tools and support to enhance your company's innovation capacity. You can get help with:

- Free coaching and analysis of an innovation specialist
- Finding EU-funded innovation support from concept to commercialization

EUSME SUPPORT

HORIZON 2020

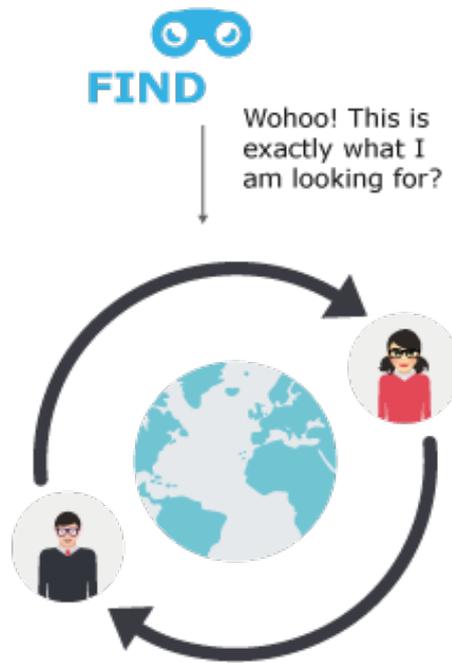
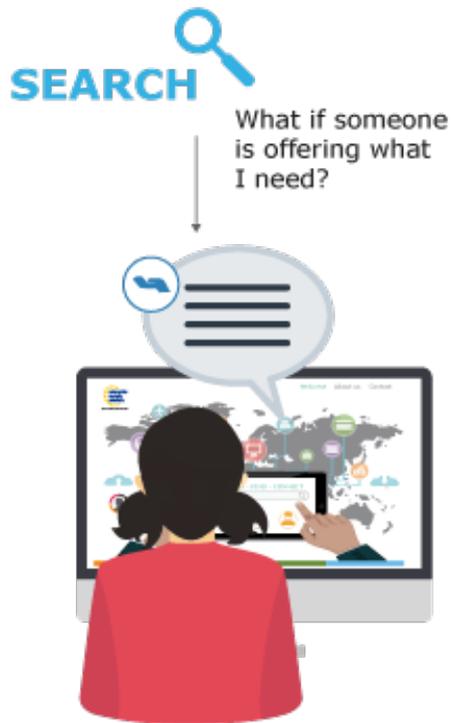




Finansieras av



Eenmatch.eu





Företagsrådgivning nära dig

**TILLVÄXT
VERKET**

Marian Mikheil

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031-7066060

Thomas Bräck

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031-7066073



”Som litet företag behöver man hjälp för att etablera sig utomlands. Vilka marknader ska man välja först?”

Emilia Lindmark
E & E Glasses

**TILLVÄXT
VERKET**



E & E Glasses
Plats: Umeå
Antal anställda: 5
Grundat: 2010

”Via Enterprise Europe Networks databas har vi kunnat marknadsföra vår kompetens och hittat nya tekniksamarbeten med andra företag.”

Johanna Björklund
Codemill

**TILLVÄXT
VERKET**



Codemill
Plats: Umeå
Antal anställda: 30
Omsättning: 18 miljoner

”Enterprise Europe Network hjälpte oss hela vägen från att få tag på kontakterna till dess att kontrakt skrevs.”

Torbjörn Gärdenfors
Pjama

**TILLVÄXT
VERKET**



Pjama
Plats: Malmö
Antal anställda: 2
Grundat: 2010

”För att kunna ta fram en färdig lösning för marknaden behövde vi göra en förstudie för att undersöka om den nya komponenten fungerade tekniskt och kommersiellt.”

Karl Boman
Climatewell

**TILLVÄXT
VERKET**

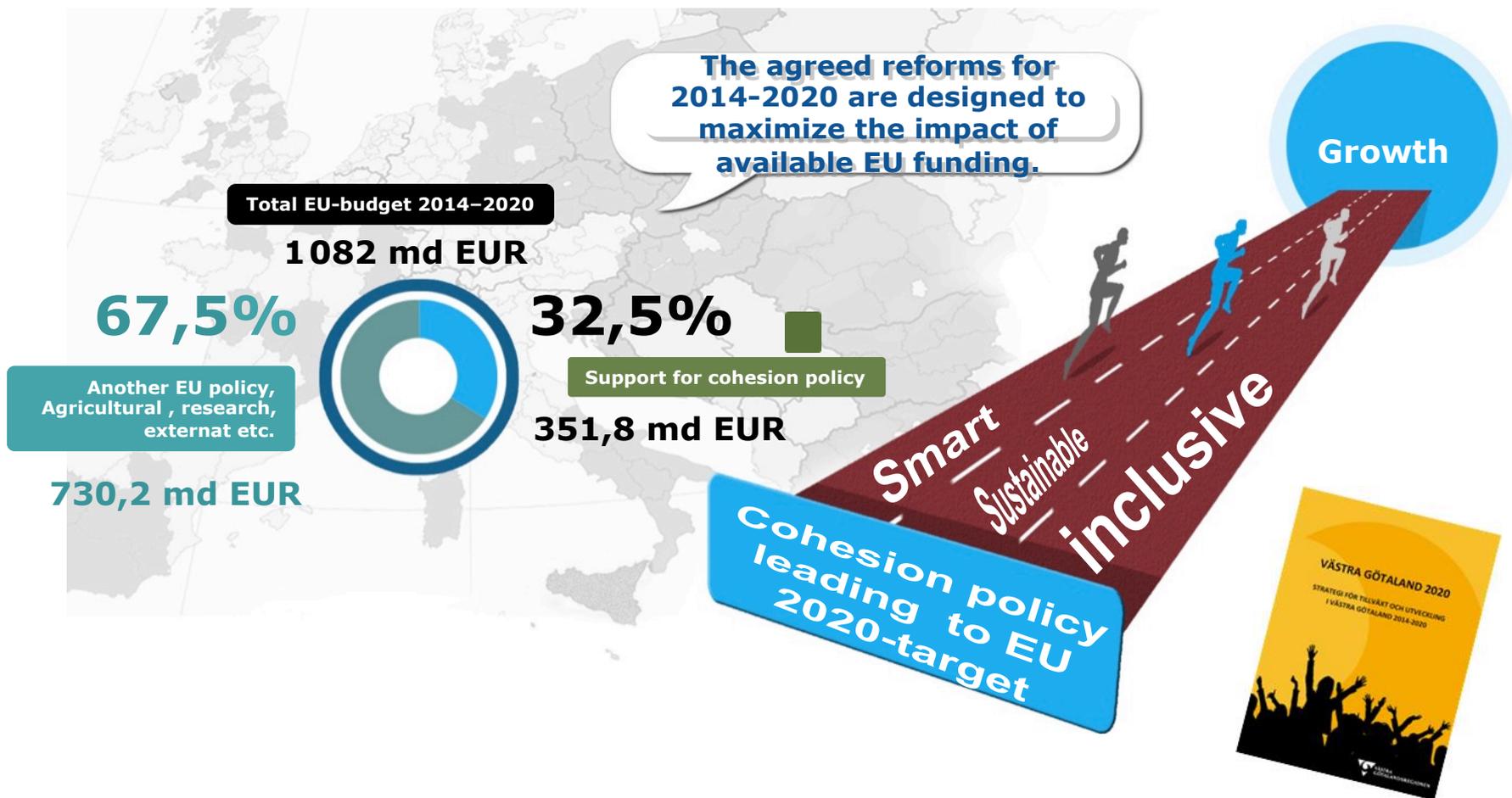


Climatewell
Plats: Stockholm
Antal anställda: 25
Omsättning: 9 miljoner

Interreg and The European Regional Development Fund

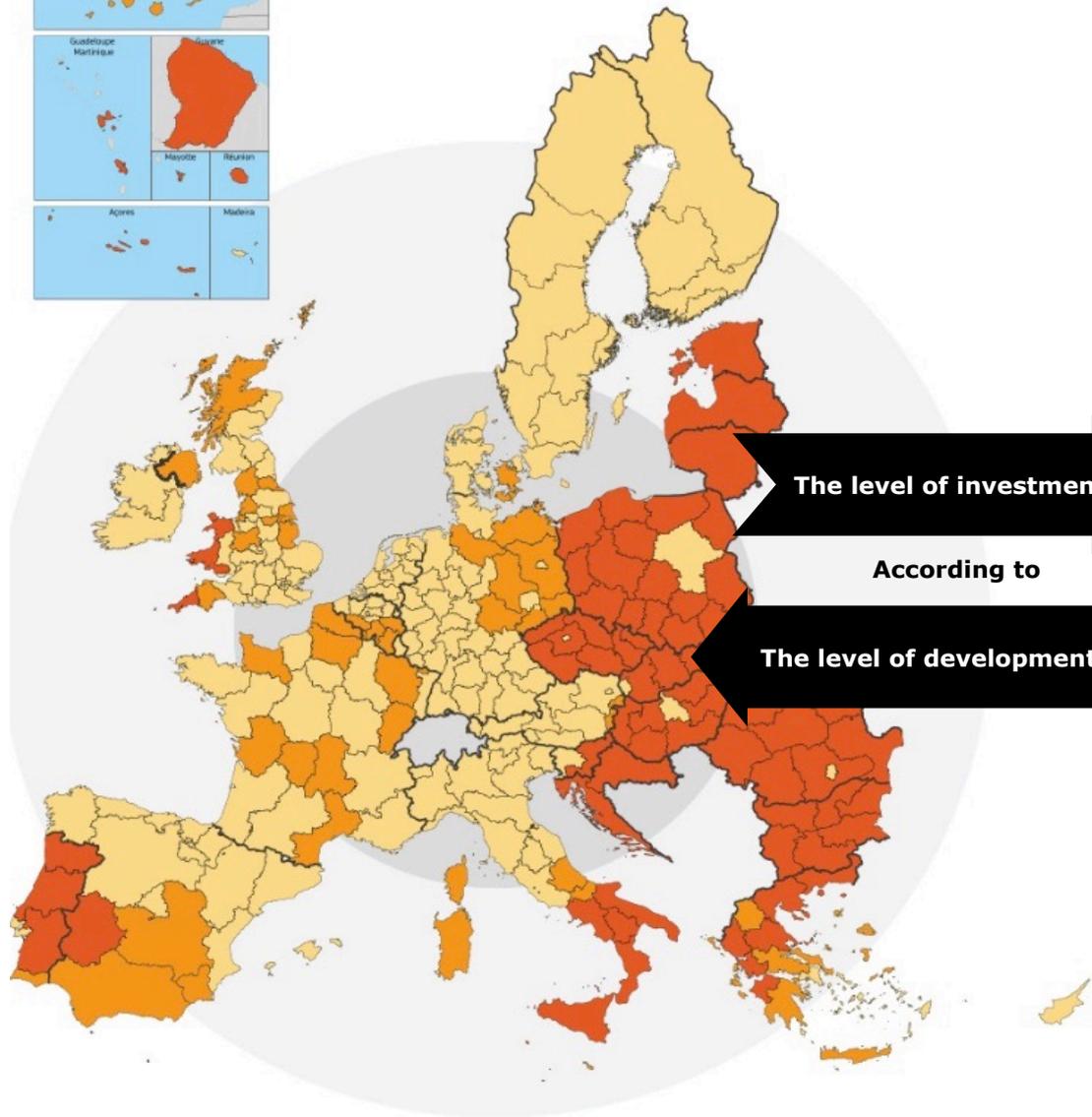
2015-10-26
Cecilia Nilsson

EU cohesions policy 2014-2020: 1/3 of EU's budget



EU 2020-target – Sweden 2020-target VG 2020-target

Mål (procent)	EU	Sverige	VG 2020	Status VG
Increased employments rate	75	80	81	78
Increased R&D investments	3	4	5	4,3
High education grad	40	40	55	43
Reduced school dropout	<10	<10	<8	11
Reduced exclusion	20 miljoner personer	<14	<12	14
Reduced greenhouse gases	20	40	80	8
Increased energy efficiency	20	20	25	10
Increased share of renewable energy	20	50	60	31



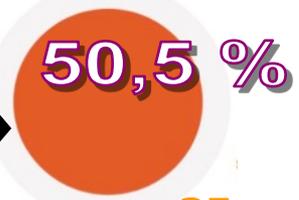
All EU regions benefit

182 md EUR

For less developed regions

GDP < 75% of average EU-27

27% of the EUs population



The level of investment

According to

The level of development

35 md EUR To transitional regions



54 md EUR To more developed regions

GDP > 90% of average EU-27

61% of the EUs population



Method: programs, partnerships and shared management

**Common
strategic
framework**

**Partnership
agreement**

**Operational
programs**

**Management
of program/
project
selection**

**Monitoring:
manual
reporting**



Ett gott klimat för kreativitet, entreprenörskap och företagande

Internationell konkurrenskraft genom regional kraftsamling kring styrkeområden

En ledande kunskapsregion

En region där vi tar globalt ansvar

Ett resurseffektivt samhälle med minskad klimatpåverkan

Hållbar konsumtion som driver ansvar, utveckling och innovationer

Tillgång till kommunikation för arbete, utbildning och livskvalitet

En region för alla

En region som syns och engagerar

En ledande kulturregion och ett rikt kulturliv med fokus på barn, unga och delaktighet

Bryta utanförskap och segregation, stärka kopplingarna mellan utbildning och arbetsliv

Livslångt lärande för ökad delaktighet och konkurrenskraft

Ökat utbyte med och påverkan på omvärlden

VÄSTRA GÖTALAND 2020

STRATEGI FÖR TILLVÄXT OCH UTVECKLING I VÄSTRA GÖTALAND 2014-2020 (RUP)



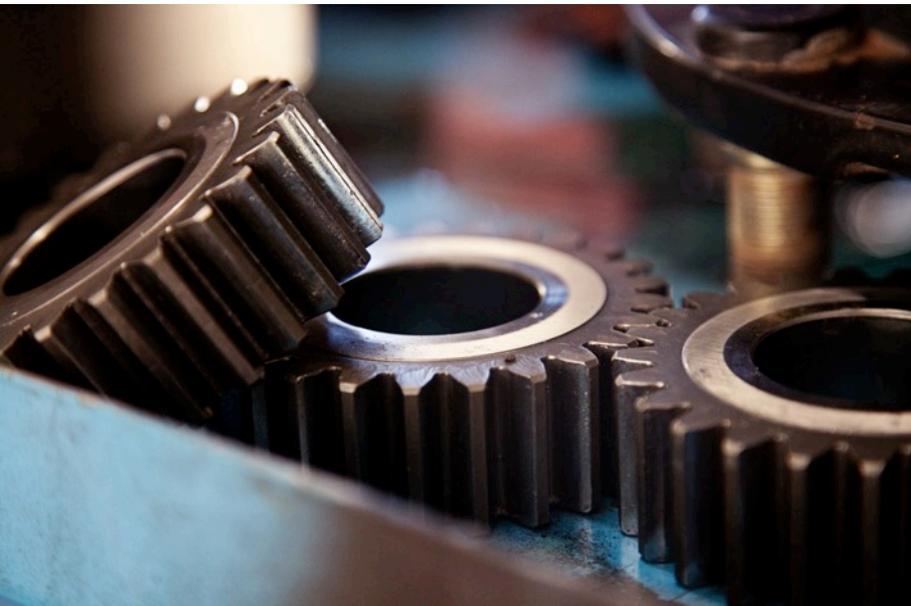
VÄSTRA
GÖTALANDSREGIONEN

European Regional Development Fund in Western Sweden

- Strengthen the competitiveness of small and medium-sized enterprises, contribute to a more low-carbon economy and promote sustainable urban development.
- 3-year projects, 40 % EU-funding
- Budget: 450 million SEK
- Indicators:
 - 1299 SME receive support
 - 1900 new jobs in these SME's
 - 380 SME cooperate with researchers

Enhancing the competitiveness of small and medium sized enterprises

- Innovations- och marknadsutveckling
- Coaching och uppföljning av företagens utveckling
- Identifiera och utveckla affärsidéer
- Utveckla nya verktyg för behovsanpassad affärsrådgivning



Mål: Fler innovativa tillväxtföretag.

En investering för framtiden



Strengthening research, technological development and innovation

- **Forsknings- och innovationssamverkan**
- **Test- och demonstrationsmiljöer**
- **Innovationsupphandling, ökad kunskap**
- **Positionering av forsknings- och innovationsmiljöer (internationalisering)**

Mål: Stärkt samverkan inom forskning och innovation i regionala styrkeområden



En investering för framtiden

Supporting the shift towards a low-carbon economy in all sectors

- **Forsknings- och innovationssamverkan**
- **Test- och demonstrationsmiljöer**
- **Innovationsupphandling, ökad kunskap**
- **Innovations- och marknadsutveckling (internationalisering)**

Mål:

1. Stärkt samverkan inom forskning och innovation...
2. Stärkt förmåga att utveckla och kommersialisera nya produkter, tjänster och lösningar...
... som bidrar till en mer koldioxidsnål ekonomi.



News in the 2014-2020 programme period

- Ökat fokus på test- och demonstrationsmiljöer
- Stort fokus på riskkapital
- Internationalisering
- Öronmärkta pengar till satsningar på koldioxidsnål ekonomi
- Hållbar stadsutveckling i Göteborgs stad, inom samtliga insatsområden
- Fondsamordning
- Det finns ett nationellt regionalfondsprogram

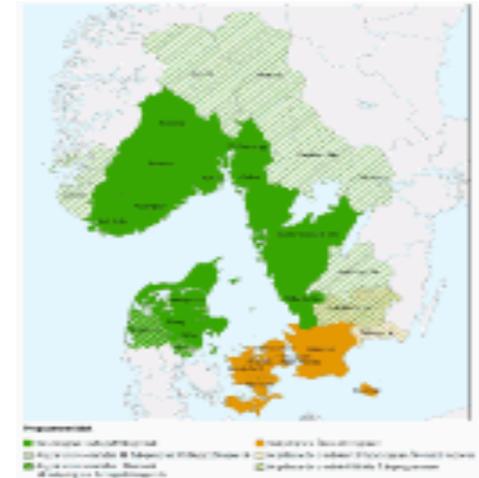
Success factors

- Samarbeten över sektorsgränserna, med näringsliv, offentliga aktörer, forskningsinstitutioner, klusterorganisationer och akademi
- Företagsnära projekt ger högre resultat
- Kommersialisering – avknoppningar från forskningen
- Strategiska projekt med kopplingar till regionala målsättningar (VG2020 och Hallands tillväxtstrategi)
- Aktivt ägarskap av projekten
- Stark projektorganisation
- Nyttänkande och risktagande!

Interreg



Sverige-
Norge



Öresund-Kattegatt-
Skagerrak



Nordsjön



Östersjön

Interreg
Europe



Inriktning på Interreg

Gemensamma huvudsakliga insatsområden för dessa:

1. Forskning/innovation, teknisk utveckling, SMF
2. Miljö, energi – speciellt koldioxidreduktion
3. Hållbara transporter – person och gods
4. För enbart Sverige-Norge: Gränshinder, gränsöverskridande arbetsmarknad, natur- och kulturarv

Sverige-Norge

ca 400 EU-miljoner kr

Öresund/Skagerrak/Kattegatt

ca 1300 EU-miljoner kr

Nordsjöprogrammet

ca 1500 EU-miljoner kr

Östersjöprogrammet

ca 2700 EU-miljoner kr



www.vgregion.se/eu



Horizon 2020 and the maritime area



Esa Stenberg, VINNOVA
National Contact Point (NCP)
International Department
esa.stenberg@vinnova.se



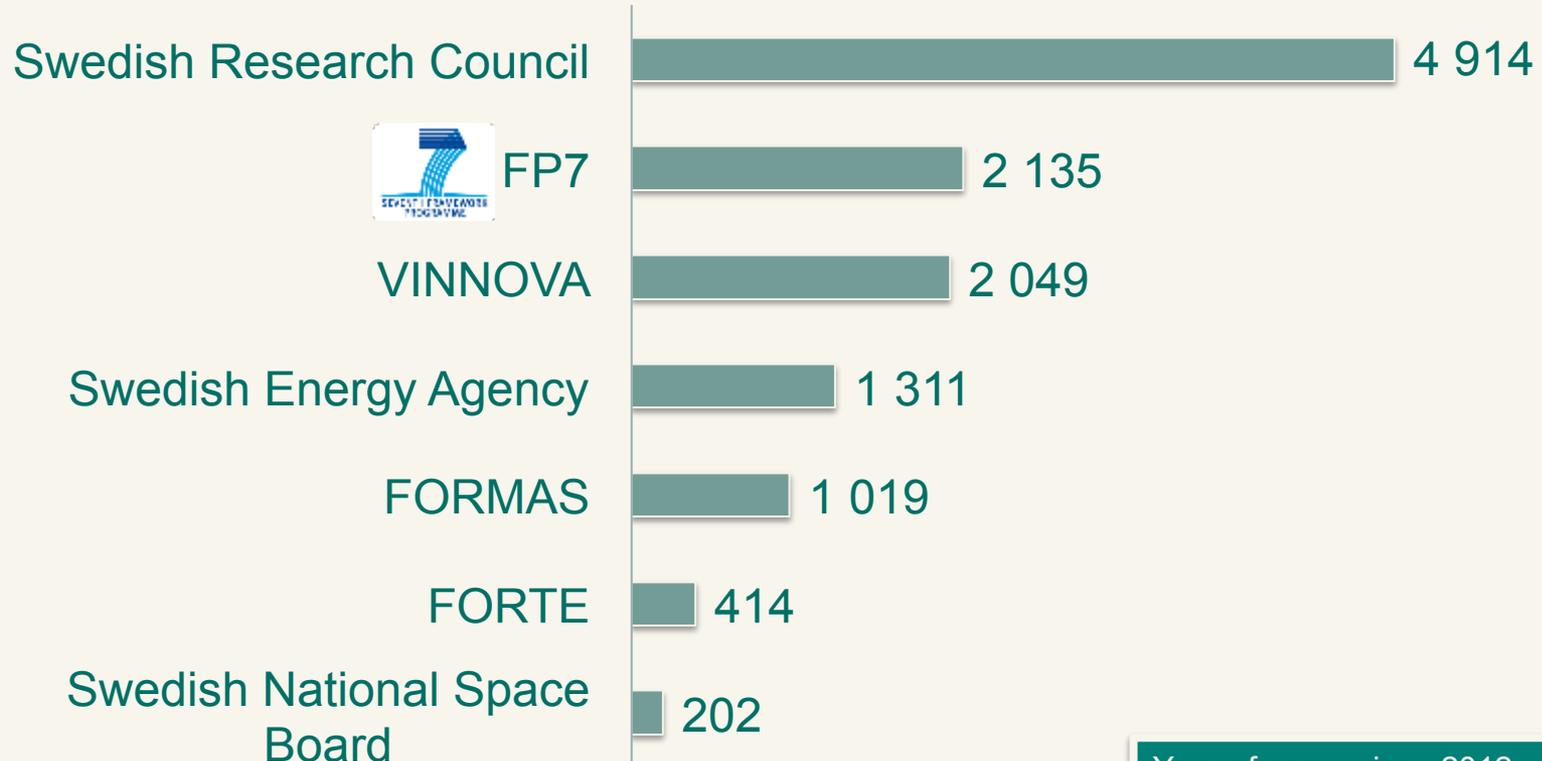
VINNOVA in brief

- Swedish government agency working under the Ministry of Enterprise
- During 2013 the funds for Research and Development is 2 376 Million SEK
- National responsibility for providing information and advice regarding Horizon 2020
- Over 200 people work at VINNOVA's offices in Stockholm and Brussels
- Director General Charlotte Brogren



EU Research programme - a significant source of funding

Million SEK



Year of comparison 2012
Source: E-corda and Statistics
Sweden ISSN 1654-3416

Swedish participation in EU projects

4 506

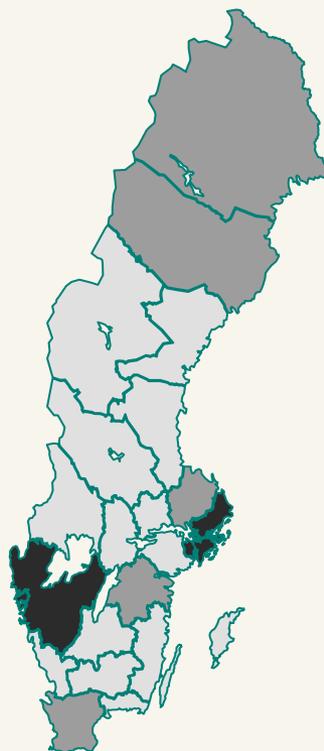
Swedish participants

1 708

€ Million to SE

9

Rank in budget share



Participation in FP7

1-99

100-499

> 500



HORIZON 2020



HORIZON 2020

What is Horizon 2020?



The EU's 2014-2020 programme for research & innovation

- Respond to the economic crisis and invest in future jobs and growth
- Focus on societal challenges facing European society
- Strengthen the EU's global position in research and innovation
- Couple research to innovation

<http://ec.europa.eu/research/horizon2020>

Years 2014 - 2020
Budget ca €80B

Challenge-driven
approach – focus
on innovation

Two-years work
programmes

Less descriptive
topics – more focus
on impact

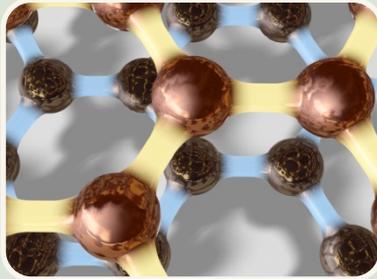
Max 8 months
from closure of call
to contract signed

3 legal entities from
3 member or
associated countries

Horizon 2020 – facts in short

Horizon 2020

The basics: three priorities



Excellent
science



Industrial
leadership



Societal
challenges

Societal challenges



Health, demographic change and wellbeing



Food security, sustainable agriculture and forestry, marine and maritime and inland water research and the bioeconomy



Secure, clean and efficient energy



Smart, green and integrated transport



Climate action, environment, resource efficiency and raw materials



Europe in a changing world - inclusive, innovative and reflective societies



Secure societies - protecting freedom and security of Europe and its citizens



The EU Framework Programme for Research and Innovation

HORIZON 2020

**Smart, green and
integrated Transport**

***Work Programme
2016-2017***



Research and
Innovation

*Information provided is
indicative, please refer to
adopted WP2016/7*

Objectives of Societal Challenge 4 'Smart, green and integrated Transport':

Achieving a European transport system that is

- resilient
- resource-efficient
- climate and environmentally friendly
- safe
- seamless
- competitive



...and that benefits citizens, economy and society

Transport Work Programme

Calls for proposals:

- 1) Mobility for Growth
- 2) Automated Road Transport **New**
- 3) European Green Vehicles Initiative

Other activities

- Blue Growth (SC2/Food)
- SME Instrument
- Fast Track to Innovation
- SC3/Energy



Contents and structure

A) Mode-specific challenges

- 1) Aviation
- 2) Waterborne

C) Cross-cutting issues

- 8) Socio-economic and behavioural research and forward-looking activities for policy making

B) Cross-modal / transport integration challenges

- 3) Safety
- 4) Urban
- 5) Logistics
- 6) Intelligent Transport Systems
- 7) Infrastructure

Contents and structure – **Maritime relevance**

A) Mode-specific challenges

- 1) Aviation
- 2) **Waterborne**

C) Cross-cutting issues

- 8) **Socio-economic and behavioural research and forward-looking activities for policy making**

B) Cross-modal / transport integration challenges

- 3) **Safety**
- 4) Urban
- 5) **Logistics**
- 6) **Intelligent Transport Systems**
- 7) **Infrastructure**



*2016-2017: 4 topics open
EUR 78 Mio EU budget*

Context

- Economic, environmental and social sustainability are challenges for waterborne transport
- Need for a modern, resource-efficient, interconnected, safe, secure and resilient system
- Efficiency gains, improved use of energy sources, minimisation of environmental impacts desirable
- Competitors challenging Europe's leadership in design, production and operation of waterborne assets

Waterborne: topics and budget

Total EU contribution: EUR 78 Mio

Topic	Title	Action type	Stages	Budget (EUR Mio)	
				2016	2017
MG-2.1	Innovations for energy efficiency and emission control in waterborne transport	IA	2		40
MG-2.4	Complex and value-added specialised vessels	IA	2		
MG-2.2	Development, production and use of high performance and lightweight materials for vessels and equipment	IA	2	38	
MG-2.3	New and improved transport concepts in waterborne transport	RIA	2		

Types of Actions

Actions	Participants
<p>Research and Innovation Actions (RIAs) Main focus on research</p>	<p>Consortia of min. 3 partners from 3 different countries</p>
<p>Innovation Actions (IAs) Main focus on close-to-market activities</p>	
<p>Coordination and Support Actions (CSAs) Focus on coordination and networking of R&I projects, programmes and policies</p>	<p>Single entities or consortia</p>



How to read a topic

<p><i>Topic title</i></p>	<p><i>Topic MG-2.2-2016</i> Development, production and use of high performance and lightweight materials for vessels and equipment</p>
<p><i>Specific Challenge</i> context and why</p>	<p>Exploring new lightweight materials for waterborne usages (vessels and components)</p> <ul style="list-style-type: none"> Developing design, construction & production principles Involve SME suppliers
<p><i>Scope</i> specifies the focus but without describing specific approaches</p>	<p>All of the following</p> <ul style="list-style-type: none"> Conception, production, use and performance analysis and simulation of advanced composites Assessing safety and fire resistance, noise and thermal properties
<p><i>Expected Impact</i> key elements of what is expected to be achieved</p>	<ul style="list-style-type: none"> Introduce new lightweight materials Decrease maintenance and life cycle costs (-30 %) Inputs to relevant regulatory regimes as appropriate Full scale demonstrators where feasible
<p><i>Types of action</i> what action to be applied</p>	<p>Innovation action <i>EUR 7-9 Mio per proposal</i></p>

Challenge

- Keep Europe's lead in world markets, introduce a step-change in energy efficiency and emission reduction
- Explore alternative fuels, prepare for electrification

Scope

- Alternative fuels, in particular LNG and methanol
- Energy storage, hybridisation, electrification
- Pollution reduction and control technologies
- Reduction of frictional resistance

Expected impact

- Energy efficient, less polluting waterborne transport

Estimated EC contrib. per proposal: EUR 5-9 Mio

Challenge

- Overcoming barriers between transport modes
- Greening and optimising the transport chain
- Contributing to EU "Energy Union" goals

Scope

- Improving systems for waterborne operations
- New cost-efficient vessel concepts for gas transport
- Automation in waterborne operations



Expected impact

- Technical and operational validation of a concept leading to substantial improvement of safety, sustainability performance
- Concepts for the automation of waterborne transport

Estimated EC contrib. per proposal: EUR 6-12 Mio



Complex and value-added specialised vessels

Topic MG-2.4-2017 (IA)

Challenge

- Exploring best design, construction and production principles for both small series and standard vessels

Scope

- Developing and validating advanced ferry concepts, low-impact ship design and operations, standardised workboat concepts, design for new support operations

Expected impact

- Technical and operational validation of a concept leading to substantial improvement of safety, sustainability performance
- Proof of concept up to the demonstration level
- Development of standardised approaches

Estimated EC contrib. per proposal: EUR 8-12 Mio



2016-2017: 6 topics open
EUR 66 Mio EU budget

Context

- Safety improved across all modes over last 10 years
- EU targets for transport safety: halving road casualties by 2020, towards zero fatalities by 2050
- Aim: reducing accident rates, fatalities and injuries in each mode
- Increasing knowledge and awareness, developing technologies, products, services, solutions



Safety: topics and budget

Total EU contribution: EUR 66 Mio

Topic	Title	Action type	Stages	Budget (EUR Mio)	
				2016	2017
MG-3.3	Safer waterborne transport and maritime operations	RIA	2	22	
MG-3.5	Behavioural aspects for safer transport	RIA	2		
MG-3.4	Transport infrastructure innovation to increase the transport system safety at modal and intermodal level	RIA	2	12	



Safer waterborne transport and maritime operations

Topic MG-3.3-2016 (RIA)

Challenge

- Improving technologies and procedures for safe and environmentally sound waterborne operations

Scope

- Waterborne transport operations in complex traffic situations and extreme environments; modelling
- New vessel and equipment design concepts
- Safety assessment for flash point and volatile fuels

Expected impact

- Proof of concepts for improving waterborne safety

Estimated EC contrib. per proposal: EUR 5-7 Mio
International Cooperation encouraged



2016-2017: 4 topics open

EUR 27 Mio EU budget

*Complements relevant topics under **Urban Mobility** and **Intelligent Transport Systems***

Context

- In 2012, **45%** of freight transport (tkm) on the road, **40%** by sea, **9%** by rail, **3%** by inland waterways
- **One in four** trucks in the EU **runs empty**, overall efficiency (weight-based) as low as 43%
- Need for an increase in **efficiency** and **sustainability**
- Opportunities provided by **digitalisation**
- Need to remove **bottlenecks**

Logistics: topics and budget

Total EU contribution: EUR 27 Mio

Topic	Title	Action type	Stages	Budget (EUR Mio)	
				2016	2017
MG-5.1	Networked and efficient logistics clusters	RIA	2	12	
MG-5.2	Innovative ICT solutions for future logistics operations	RIA	2		→ 12
MG-5.4	Potential of the physical internet	RIA + CSA	2 1		
MG-5.3	Promoting the deployment of green transport, towards Eco-labels for logistics	CSA	1	2	

CSA = Coordination and Support Action

RIA = Research and Innovation Action



Innovative ICT solutions for future logistics operations

Topic MG-5.2-2017 (RIA)

Challenge

- Need to exploit advanced ICT solutions (Internet-of-Things, big data, new satellite navigation infrastructure, ITS)

Scope (at least 2 out of the following 3 issues)

- a) Optimize delivery planning and increase availability of data
- b) Dynamic routing and business models
- c) Harmonize interoperability between supply chain partners

Expected impact

- Better integration of ICT solutions to link digital and physical flows; seamless freight transport across modes and MSs; reliability & reduced transit times; viable dynamic transport services

Estimated budget per proposal: EUR 3-5 Mio



*2016-2017: **3 topics open***

***EUR 38 Mio** EU budget*

*Proposals addressing Rail (in a multimodal approach) and Aviation infrastructure: **ensure complementarity** with activities in 'Shift to Rail' and 'SESAR' respectively*

Context

- Growing need to make infrastructure more resilient, to keep pace with growing mobility needs and extreme events
- Coping with declining resources to maintain and upgrade transport infrastructure
- Challenge: identify innovative solutions to increase efficiency and robustness of transport infrastructure

Infrastructure: topics and budget

Total EU contribution: EUR 38 Mio

Topic	Title	Action type	Stages	Budget (EUR Mio)	
				2016	2017
MG-7.1	Resilience to extreme (natural and man-made) events	RIA	2		
MG-7.2	Optimisation of transport infrastructure including terminals	RIA	2		→ 37
MG-7.3	The Port of the future	RIA CSA	2 1		→ 1

CSA = Coordination and Support Action

RIA = Research and Innovation Action

Topic MG-7.3-2017 (RIA+CSA)

Challenge

- Ports face specific challenges (emissions reduction, smart grids, use of renewables, etc.) as well as challenges common to all multi-modal terminals

Scope (RIA + CSA)

- Re-engineering of operational processes inside and around terminals
- Better capacity management and integration in the socio-economic surrounding environment
- Efficient connections with hinterland transport network
- Developing appropriate Key Performance Indicators

Expected impact

- Reduce impacts and costs related to port activities; integration of the port in the surrounding socio-economic area.

Estimated budget per proposal: EUR 3-5 Mio (RIA); EUR 1 Mio (CSA)

Participation of Mediterranean and Neighbouring Partner Countries encouraged



2016-17 calls: key dates

Date		Calls / topics
2015	15 October	Opening of 2016 calls
2016	20 January	Closing Two-stage topics: 1st stage proposals
	26 January	Single-stage topics
	29 September	Two-stage topics: 2nd stage proposals
2016	20 September	Opening of 2017 calls Calls Mobility for Growth & Autom. Road Transport
	4 October	Call Green Vehicles
2017	26 January	Closing Two-stage topics: 1st stage proposals
	1 February	Single-stage topics
	27 September	Two-stage topics: 2nd stage proposals - call ART
	19 October	Two-stage topics: 2nd stage proposals - call MG



The EU Framework Programme for Research and Innovation

HORIZON 2020

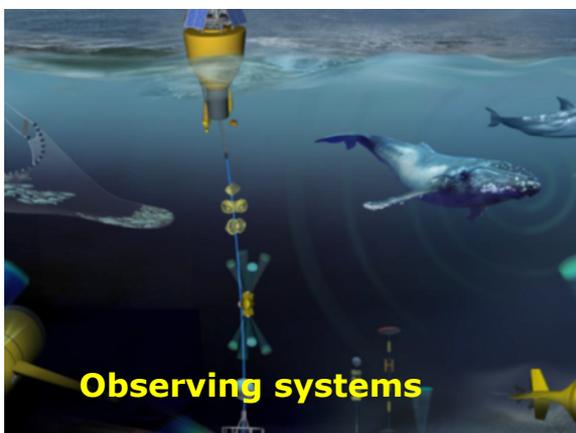
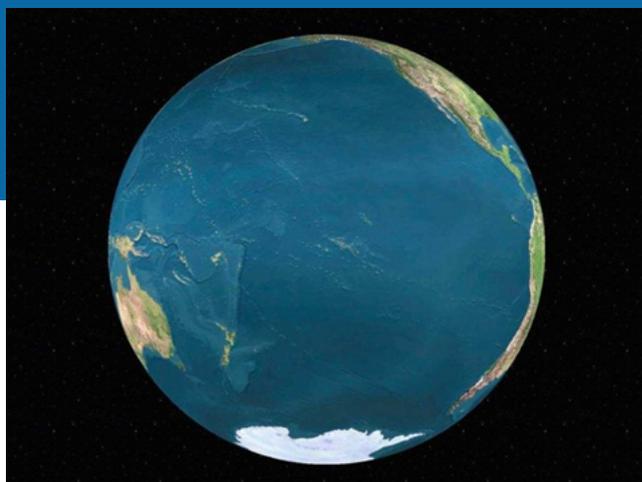
Food security, sustainable agriculture and forestry, marine and maritime and inland water research and the bioeconomy



***Work Programme
2016-2017***

Blue Growth R&I

Scope and opportunities across H2020



A. Demonstration the innovation potential of seas and oceans

Actions include:

- ✓ Scaling up and de-risking **marine innovations**
- ✓ Improving environmental legislation affecting **marine technologies and businesses**

Topic	Title	Action type	Stages	Budget (EUR Mio)	
				2016	2017
BG-02	High value-added specialised vessel concepts enabling more efficient servicing of emerging coastal and offshore activities	IA	1	7	8
BG-03	Multi-use of the oceans' marine space, offshore and near-shore: compatibility, regulations, environmental and legal issues	CSA	1	2	
BG-04	Multi-use of the oceans marine space, offshore and near-shore: Enabling technologies	RIA	1		8

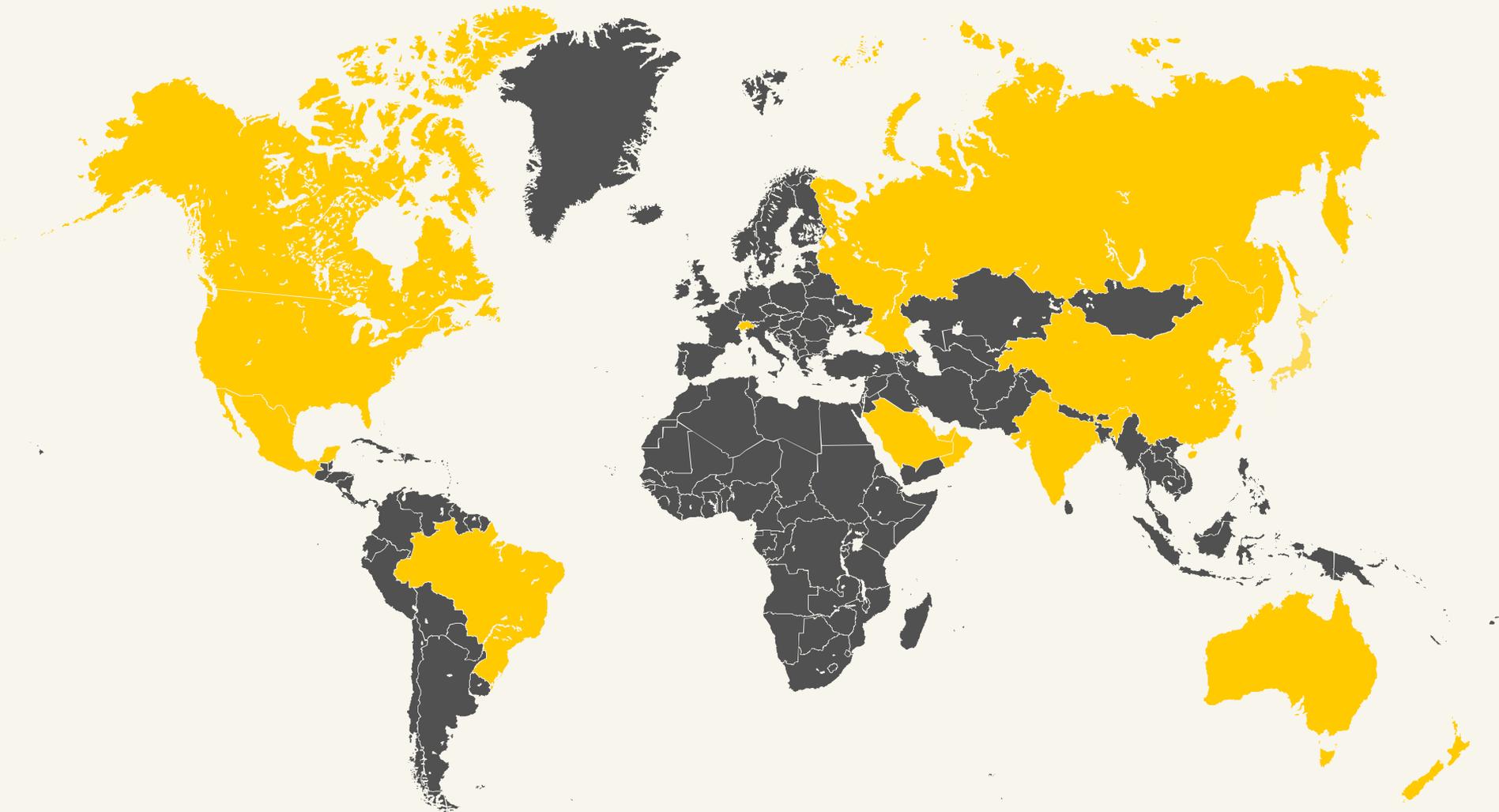
CSA = Coordination and Support Action
RIA = Research and Innovation Action

Deadlines: 17 Feb 14 Feb



More information

Horizon 2020 is open for all...



...but in general the industrialised countries fund their own participation

Time to grant

A maximum time to grant of 8 months

5 months

for informing all applicants of
outcome of scientific evaluation

Some exceptions for ex:

- Actions of ERC
- Complex actions
- Large number of proposals
- On request of applicants

3 months

for signature of GA

No more negotiations!

Horizon 2020 - Type of actions

Research and Innovation Actions (RIA):

100% of eligible costs
25% for indirect costs

Innovation Actions (IA):

Profit-organisations
70% of costs
Non profit: same as RIA

Building a Team
Min 3 partners from
3 different EU countries
or AC

Coordination and support actions:

100% of eligible costs, 25% for indirect costs

Pre-Commercial Procurement, Prizes, SME instrument, ERC Grants, Marie Curie Fellowships, ERA-net Cofund etc.

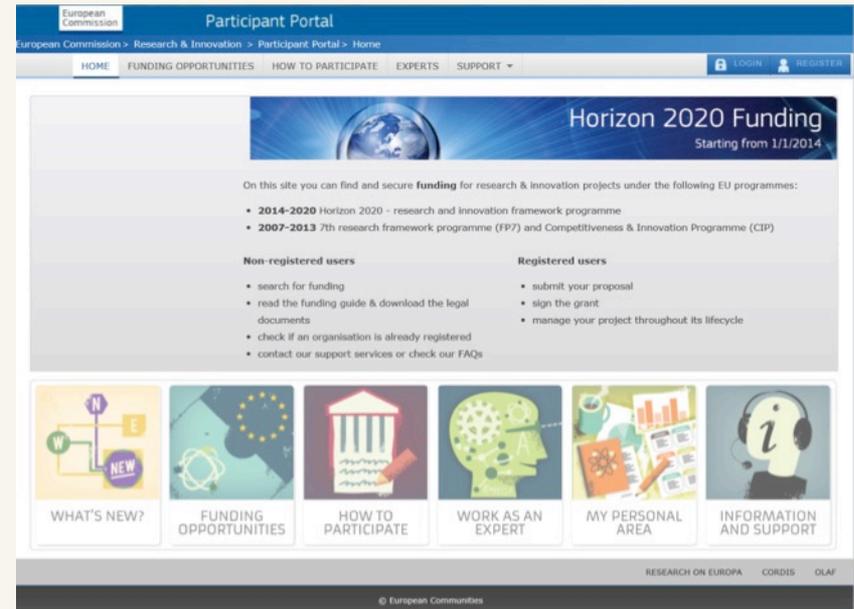
Participant Portal

– The Gate to EU-projects

Contains all documentation - be selective!

Top three documents:

- **Work-Programme**
 - Defines the project content
- **Proposal Template**
 - Includes guidance notes in all parts
 - Is 'hidden' inside the application procedure
- **General Annexes**
 - List of countries, eligibility criteria, funding rates, evaluation etc.



Paperless Grant Management in Horizon 2020

Register as expert:

<http://ec.europa.eu/research/participants/portal/desktop/en/experts/index.html>

(A-Z) [Sitemap](#) [About this site](#) [Contact](#) [Legal Notice](#) [English](#) ▼



RESEARCH & INNOVATION

Participant Portal

European Commission > Research & Innovation > Participant Portal > Experts

HOME

FUNDING OPPORTUNITIES

HOW TO PARTICIPATE

EXPERTS

SUPPORT ▼



LOGIN



REGISTER

News

H2020 call for expression for interest for experts (11/2013)
New calls for expression of interest for [individual experts](#) and [for organisations to suggest experts](#) were just published in [OJ C342 of 22 November 2013](#). European Commission will soon need experts to evaluate first Horizon 2020 proposals. Don't forget to tick the H2020 box in the registration platform and update your expertise.

Quick Links

- [FAQ for Experts](#)
- [Expert recommendations](#)

Logistics for Brussels

- [Map of evaluation area](#)



Experts

[H2020 ONLINE MANUAL](#)

Join the database of independent experts for European research and innovation.

The European Commission appoints independent experts to assist with research and innovation assignments including the evaluation of proposals, monitoring of projects, and evaluation of programmes, and design of policy.

New experts

Who can be an expert?

You have a chance of being selected as an expert if you:

- have high-level of expertise in the relevant fields of research and innovation ([see call](#) for details on types of expertise).
- can be available for occasional, short-term assignments

[REGISTER AS EXPERT](#)



What do expert assignments involve?

Experts, as peer reviewers, assist in the:

- **evaluation** of proposals
- **monitoring** of actions

In addition, experts assist in the :

- **preparation, implementation or evaluation of programmes and design of policies.** This includes the Horizon 2020 Advisory Groups.

Assignments mainly concern research and innovation, falling within the Horizon 2020 programme designed to address the challenges Europe is facing through funding excellent science, technology and innovation.

Support from National Contact Points

- Information about Horizon 2020
 - Information days
 - Thematic workshops
 - One-on-one meetings
 - Legal and financial advice
- Training courses
- Analysis and statistics of Swedish participation
- Following the development and content of Horizon 2020

Nationella kontaktpersoner för Horisont 2020

NCP-koordinator
Johan Lindberg, VINNOVA
johan.lindberg@vinnova.se

NCP-koordinator
Linda Hell, VINNOVA
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Juridik och finans
Jessica Utmegeård, VINNOVA
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EXCELLENT SCIENCE

INDUSTRIAL LEADERSHIP

SOCIETAL CHALLENGES

EUREKA OCH EUROSTARS

NATIONELL KONTAKT FÖR COST



Europeiska forskningsrådet, ERC
Ana Betamendi Huethe, Væstetalskaprådet, ana.betamendi@erc.eu

Future and Emerging Technologies
Camilla Cnudde, Væstetalskaprådet, camilla.cnudde@vtt.se

Europeisk forskningsinfrastruktur
Karin Brandt, Væstetalskaprådet, karin.brandt@vtt.se

Marie Skłodowska-Curie actions
Erik Lihorn, VINNOVA, erik.lihorn@vinnova.se

Informations- och kommunikationsteknik
Johan Lindberg, VINNOVA, johan.lindberg@vinnova.se

Nanoteknik, avancerade material och produktion
Björn Karin Danerlöv, VINNOVA, karin.danerlov@vinnova.se

Små och medelstora företag
Tilgång till stöbfinansiering
Karin Aase, VINNOVA, karin.aase@vinnova.se

Hälsa, demografiska förändringar och välbefinnande
Elisabet Nielsen, VINNOVA, elisabet.nielsen@vinnova.se

Livsmedelstrygghet, hållbart jord- och skogsbruk, maritima, maritim- samt inoffshore- och bioekonomi
Britta Fårgen-Förn, VINNOVA, britta.fargen-forn@vinnova.se

Säker, ren och effektiv energi
Smarta, gröna och integrerade transporter
Esa Stenlberg, VINNOVA, esa.stenlberg@vinnova.se

Klimatgärder, resurseffektivitet och råvaror
Jessica Utmegeård, VINNOVA, jessica.utmegeard@vinnova.se

Inkluderande, innovativa och reflexionerande samhällen
Xxxxxxxx, xxxxxxxxxx@vinnova.se

Säkra samhällen
Johan Lindberg, VINNOVA, johan.lindberg@vinnova.se

Joint Research Centre, JRC
Euratom
Esa Stenlberg, VINNOVA, esa.stenlberg@vinnova.se

Spreading Excellence and Widening participation
Jessica Utmegeård, VINNOVA, jessica.utmegeard@vinnova.se

Science with and for society
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Birgitta Boman
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Horizon 2020 – support in Sweden

Local level

- Universities
(Grants offices)

Regional level

- Enterprise Europe Network
(EEN)
- Regional Energy Agencies

National level

- National Contact Point
- VINNOVA
- VR (Swedish research council), Swedish Energy Agency
- National SME support office
- EUSMESupport2020



INSIDE – our newsletter for European funding!



inside

Nyheter om europeiska och internationella FoU-program från VINNOVA
14 februari 2014

Gå till VINNOVA.se

[Prenumerera](#) [Avprenumerera](#) [Skicka vidare](#)

Svensk lansering av Horisont 2020

Den 1 januari startade EU-kommissionens omfattande satsning på forskning och innovation – Horisont 2020. Det nya ramprogrammet har en budget på 80 miljarder euro vilket gör programmet till världens största program för forskning och innovation. Den 29 januari arrangerade VINNOVA ett lanseringsevent på Clarion Hotel Sign i Stockholm. Medverkade gjorde bland andra Utbildningsminister Jan Björklund och Robert-Jan Smits från EU-kommissionen. [Om eventet](#)



Nationella påverkansplattformar för ökat deltagande i Horisont 2020

Den nationella EU-samordningsfunktionen EU-Sam, har lanserat en ny utlysning för att öka det svenska deltagande i Horisont 2020. Utlysningen vänder sig till konsortier av svenska forsknings- och innovationsaktörer som vill utveckla nationella påverkansplattformar för Horisont 2020. Målet är att påverka förutsättningarna för svenska aktörer att delta i Horisont 2020. [Om utlysningen](#)

Uppsala universitet leder antibiotikaprojekt inom IMI

Ett stort antibiotikaprojekt på 750 miljoner kronor inom Innovative Medicines Initiative ska koordineras av Uppsala universitet. Projektet ska

Nationella informationsdagar om Horisont 2020

Missade du något av våra informationsmöten om de tematiska delarna av Horisont 2020? Du kan nu ta del av presentationerna och filmerna från

VINNOVA

Kontakta oss om du vill veta mer om Horisont 2020



Nationella kontaktpersoner: www.vinnova.se/NCP

Horisont 2020: www.vinnova.se/h2020

Nyhetsbrevet Inside: www.vinnova.se/inside

Sveriges innovationsmyndighet



**Vi stärker Sveriges innovationskraft för
hållbar tillväxt och samhällsnytta**

www.VINNOVA.se



Extra material

**Marie Skłodowska-Curie Actions
and
Mobility for Growth**



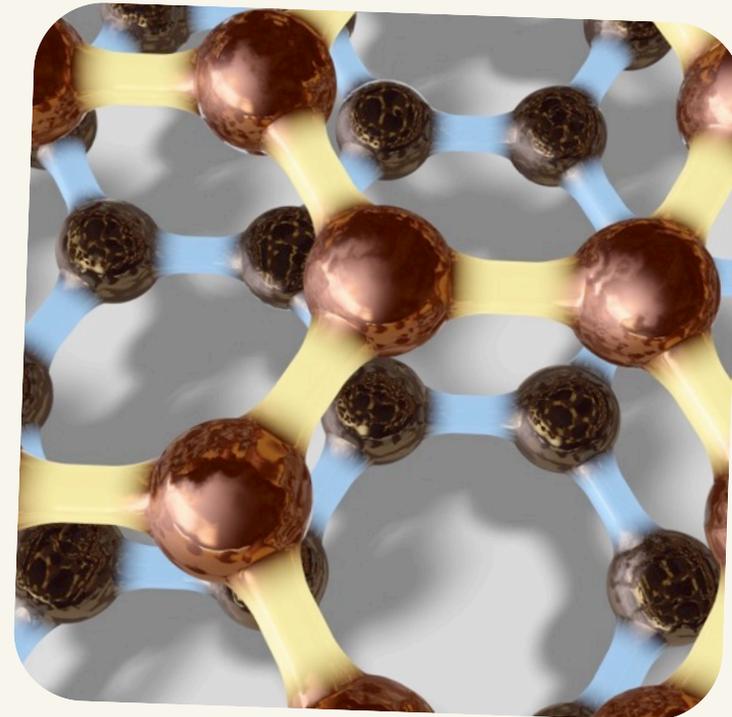
Horizon 2020

1. Excellent Science

Bottom-up research

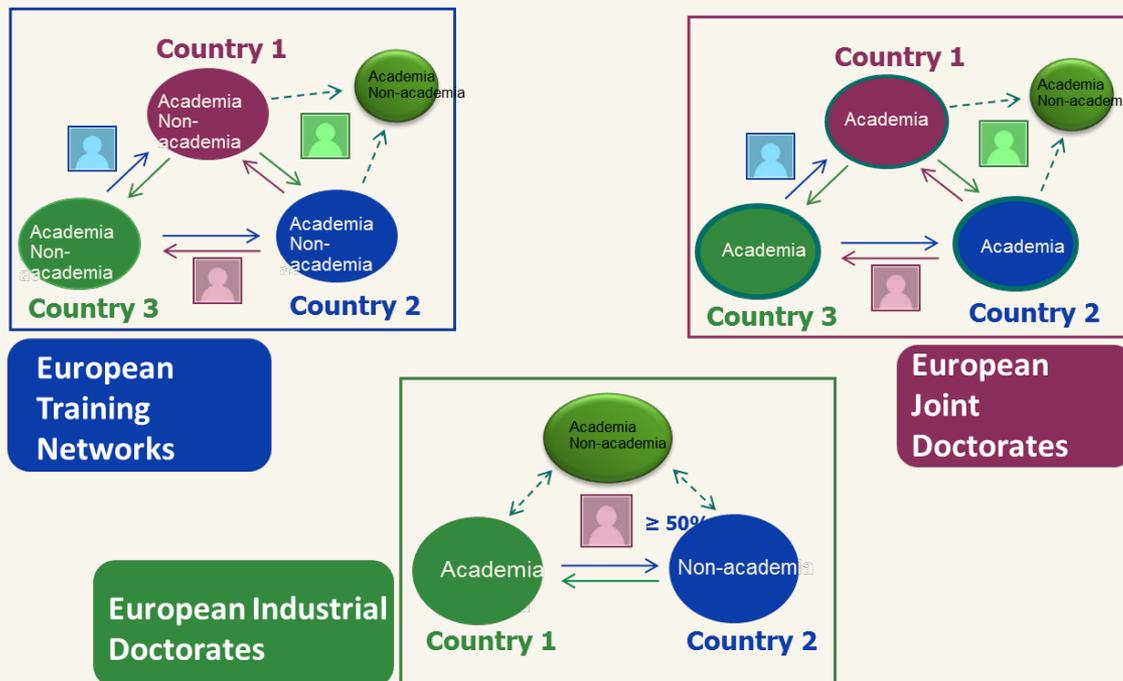
To raise the level of excellence in Europe's science base, make Europe an attractive location for researchers and secure Europe's long-term competitiveness

- **European Research Council** supporting the most talented and creative individuals and their teams to carry out frontier research;
- **Future and Emerging Technologies** collaborative research to open up new and promising fields of research and innovation;
- **Marie Skłodowska-Curie Actions**, providing researchers with excellent training and career development opportunities;
- **Research Infrastructures** accessible to all researchers in Europe and beyond.



Innovative Training Network (ITN)

- Consortium of organisations from different countries and sectors
- Train a new generation of **creative, entrepreneurial and innovative** Early Stage Researchers (ESR) - first 4 years (full time equivalent research experience) not yet awarded a PhD
- Recruited for minimum 3 months, maximum 36 months



Individual Fellowships

- Experienced Researchers (ER) – at least 4 years (full time equivalent research experience) or a PhD
- Personal fellowship to promote mobility
- Can include a **secondment** to industry



(1-2 years) + 1 year EU

Global
Fellowships



RISE: Research & Innovation Staff Exchange

- Promoting transfer of knowledge between countries and sectors
- Exchange of "staff" around the consortium
- Networking activities
- Collaborate with any sector and any country worldwide

"Staff" – research students, postdocs, PIs, technical and managerial staff

“Mobility for Growth”

Proposals submitted to VINNOVA



Design

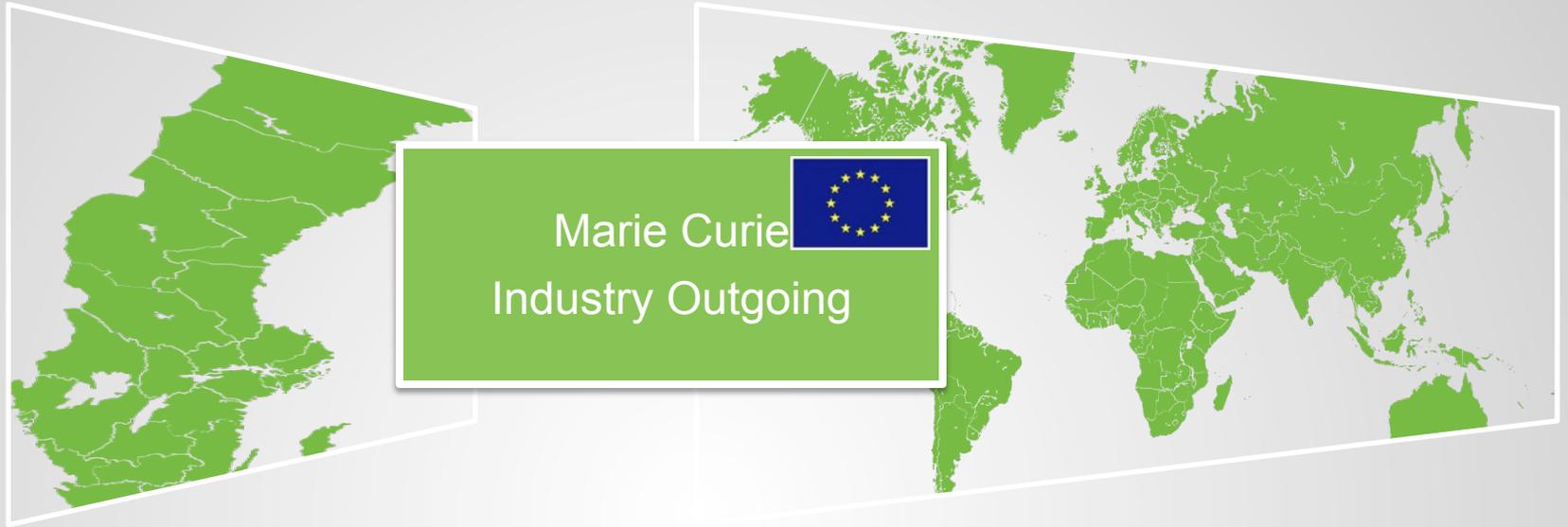
- Individual fellowship (ER)
- **International collaboration projects**
- Qualification by "flexible" mobility to other organisations
- Individual in focus
- Requirements
 - ✓ support letters showing engagement and commitment
 - ✓ co-financing
 - ✓ career/development plan
 - ✓ additional hard and soft support



Academic or private sector



Academic or private sector



Private sector



Academic or
private sector

~~Academic sector~~

15-11-04



Marie Curie 
Academy Outgoing

Academic sector

Public sector



Private sector

~~Academic sector~~



Programme started
Dec 2012



Planning grants
(**open**)



Close call for
complete project
proposals
mid March, 2016
(mid Sept, 2016)

Timeplan (--- 2018-06-30)

Project idea? Contact me!



Erik Litborn

NCP MSCA

Programme Director

Mobility for Growth

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+46 (0) 8 473 3198

www.vinnova.se/mobility

How can a sustainable shipping sector become competitive? Seminar and workshop December 16



Keynote speakers from Stena, Callenberg, The Swedish Transport Agency, a major shipper of goods (H&M or other) and a researcher panel

- An opportunity for the entire maritime cluster a to meet and contribute jointly to find solutions to the challenges facing the sector and society
- A foundation for programmes and projects and for Lighthouse' continued work and priorities for research, innovation and development