



Netherlands Enterprise Agency



Horizon Europe and LIFE

4 February 2021 HCH Session

John Heynen - RVO

*>> Sustainable. Agricultural.
Innovative. International.*

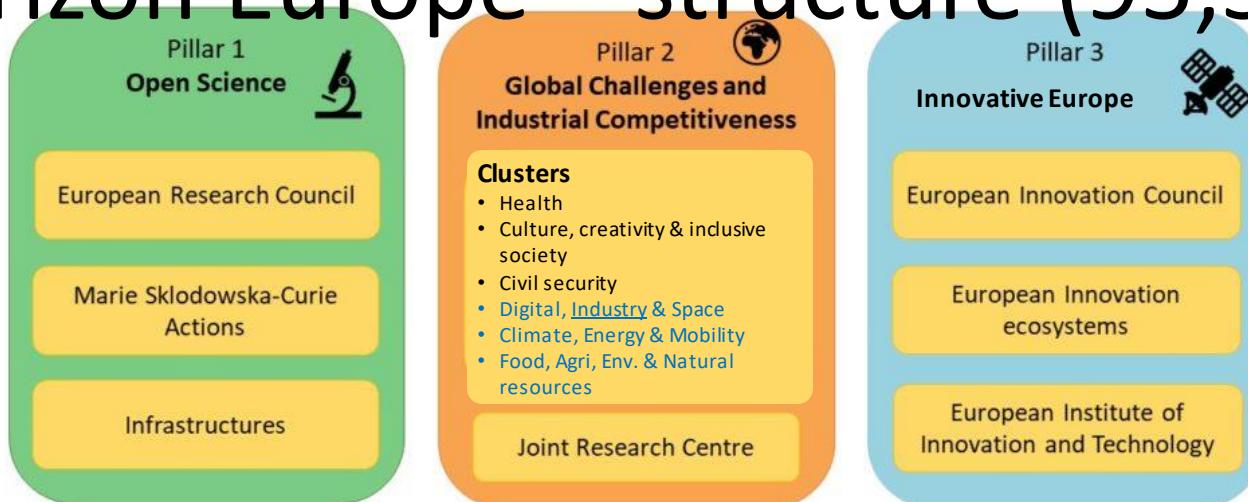
Contents Presentation

- Horizon Europe
- LIFE
- focus Circular Economy





Horizon Europe – structure (95,5 B€)



Widening participation and Strengthening the European Research

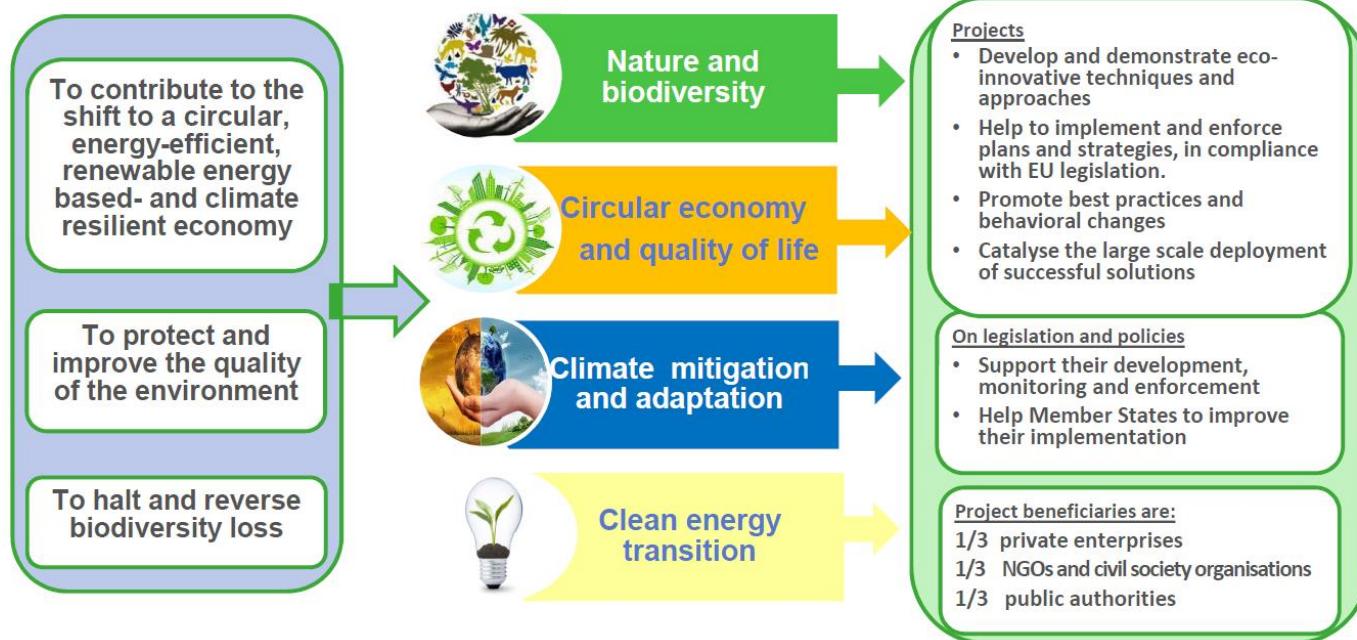
Widening participation and spreading excellence



Reforming and Enhancing the European R&I system



The LIFE Programme 2021-2027





LIFE onderwerpen in een notendop (> € 5,5 mld)

Milieu	Klimaat
Natuur & Biodiversiteit N2000 gebieden verbeteren Omstandigheden voor soorten uit Vogel- en habitatrichtlijn verbeteren	Milieu & Grondstof-efficiency <ul style="list-style-type: none">• Water• Afval• Grondstoffen/groene en circulaire economie• Milieu & gezondheid• Luchtkwaliteit/Stedelijk milieu

Milieu Informatie en Bestuur

Campagnes over water, afval, grondstof/circulair, luchtkwaliteit, milieu & gezondheid, natuur/biodiversiteit.

Handhaving, ervaringen delen N2000 beheerders, vrijwilligersnetwerken, duurzaam inkopen.

• Broeikasgas reductie
• Aanpassing aan klimaatverandering
• Informatie en bestuur

Vanaf 2021 een nieuw subprogramma erbij: duurzame energie transitie - wordt vervolgd!



LIFE | Horizon

	LIFE	Horizon
<i>Eligible</i>	EU Memberstates only (exit UK?)	EU + assoc. Countries (+ 3rd countries)
<i>Nr. partners</i>	No minimum, anyone can apply	Min. 3 in different countries
<i>Funding</i>	55 %	100 / 70 %
<i>Typical funding</i>	1-3 mln	3 – 7 mln
<i>Nr. calls</i>	1 call / year (3 strands)	Many very specific calls
<i>Type of project</i>	Pilot and demo	From research to demonstration
<i>Focus</i>	Environment & Climate	Several themes / challenges
<i>Budget</i>	5.5 billion	95 billion



THE KEY TO SUCCESS:

Ask the EC to fund your research

Help the EU to solve its problems!





Timeline Horizon Europe

Official start Horizon Europe:

January 2021

Expected pre-publication of Work Programmes
2021

Beginning of

with Calls

First deadline for submission of proposals

September 2021

➤ information today is based on DRAFT Work Programmes



Pillar 2: Characteristics

Pillar 2
Global Challenges and
European Industrial
Competitiveness

Clusters

- Health
- Culture, Creativity and Inclusive Society
- Civil Security for Society
- Digital, Industry and Space
- Climate, Energy and Mobility
- Food, Bioeconomy, Natural Resources, Agriculture and Environment

Joint Research Centre

- Topdown call text: what is your solution to the problem?
- Consortium: universities, companies and knowledge institutes
- 100-70% subsidy
- TRL ca 4 to 7
- IMPACT IMPACT IMPACT



DRAFT!

Six Destinations of Cluster 4 - the expected impacts they serve

- 1. Climate neutral, circular, and digitised production**
- 2. A digitised, resource-efficient and resilience industry**
3. World leading data and computing technologies
4. Digital and emerging technologies for competitiveness and fit for the green deal
5. Strategic autonomy in developing, deploying and using global space-based infrastructures, services, applications and data
6. A human-centred and ethical development and industrial technologies





Topic description

CE-SPIRE-10-2018: Efficient recycling processes for plastic containing materials (IA)

Specific challenge:

Plastics materials are produced mainly from raw materials of fossil origin (e.g. PE, PP, and PET).(..) Recycling and redesign of plastics are essential in reusing plastic waste material and avoiding landfill. (..) A major challenge lies in the development of process technologies, utilising plastic waste as starting material (at least in part). A better use of underexploited resource (plastic waste) for the production of added value products (not restricted to plastics but excluding fuels) and process streams would support the circular economy.

Scope: Proposals are expected to cover processes for the production of recyclable materials containing plastics. Aspects to be considered are: Improved energy and resource efficiency / Integration with the relevant value chains / Process flexibility and ability to utilise waste heterogeneous plastic materials / quality of the raw (including secondary) material streams / Quality/specifications of the yielded streams / Non-technological hurdles (regulations and standards)

Expected impact:

- decreased utilisation of primary fossil resources in the process industry of at least 30%;
- The concept should utilise at least 70% of waste material including at least 40% of plastic waste;

Type of action:

Innovation Action (IA) , 70% funding for companies

The Commission considers that proposals requesting from EUR 8 million up to 12 million





Cluster 4 Digital, Industry, Space

Call - TWIN GREEN AND DIGITAL TRANSITION 2021

- Circularity flows for **solid waste in urban environment** (IA)
- **Plastic waste as a circular carbon feedstock** for industry (IA)

Call - A DIGITISED, RESOURCE-EFFICIENT AND RESILIENT INDUSTRY 2021

- Ensuring **circularity of composite materials** (RIA)
- **Innovative business models** for circular value chains (IA)
- Developing **climate-neutral and circular raw materials** (IA)
- Paving the way to an increased share of **recycled plastics** in added value products (RIA)

Call - Digital and emerging technologies for competitiveness and fit for the green deal 2021

- Functional **electronics** for green and circular economy (RIA)



Cluster 5: Climate, Energy, Mobility

Topics 2021

- Modelling the role of the **circular economy for climate change mitigation** (RIA, 5 million euro per project (total 15 million), deadline 7 sept, one-stage

Topics 2022

- Efficient and circular **artificial photosynthesis** (RIA), 3-5 million per project (total 10 million)
- Demonstration of innovative materials, supply cycles, recycling technologies to **increase the overall circularity of wind energy technology** and to reduce the primary use of critical raw materials (IA, 13 million per project, total 40 million)
- Strengthening European coordination and exchange for innovation uptake towards sustainability, quality, circularity and social inclusion in the **built environment** as a contribution to the new European Bauhaus (Built4People) (CSA, 0,5-1 million, 1 project)
- LCA and design for sustainable circularity - holistic approach for **zero-emission mobility solutions** and related **battery** value chain (2ZERO & Batteries Partnership) CSA, 4 million, 1 project)
- Nextgen **EV components**: High efficiency and low cost electric motors for circularity and low use of rare resources (2ZERO), RIA, 3-6 million per project (total 20 million)



Cluster 6: Food, Bioeconomy, Natural Resources, Agriculture & Environment

Topics 2021, deadline one stage proposals 1 September

- > Circular Cities and Regions Initiative (CCRI)'s **circular systemic solutions**, IA, 5-10 million per project (total 20 million)
- > Circular Cities and Regions Initiative's Project Development Assistance (CCRI-PDA) , CSA, 2 million euro (total 10 million)
- > Innovative solutions to **over-packaging and single-use plastics**, and related microplastic pollution (IA), 6-8 million per project (total 8 million)

Topics 2022

- > EU-China international cooperation on unlocking the potential of agricultural residues and wastes for **circular and sustainable bio-based solutions**, RIA
- > Increasing the circularity in **textiles, plastics and/or electronics** value chains, IA
- > Integrated solutions for circularity in **buildings and the construction** sector, IA
- > Sustainable biodegradable novel **bio-based plastics**: innovation for sustainability and end-of-life options of plastics, RIA



Why getting involved in Horizon Europe?

- Access to knowledge
- Access to new markets, clients
- Networking
- Experiencing co-operation with international partners
- Funding for systemic innovation; value chain co-operation
- Funding (70/100% depending on project type)



Horizon 2020 funded circular project

PROJECT DESCRIPTION

PLAST2bCLEANED project intends to develop a method for waste electrical and electronic equipment (WEEE plastics) recycling that is practical and economically feasible, whilst also reducing environmental impact.

Duration	June 2019 – May 2023
EU contribution	€ 4 500 830 (100%)
Project type	Research and Innovation Action
Consortium	10 partners
 partners	TNO (coordinator), Coolrec and ICL-IP

Dutch start event Horizon Europe



Date	Cluster
4/3	Overarching Kick-off event
16/3	Cluster 4: Digital Industry & Space
18/3	Cluster 1: Health
23/3	Cluster 2: Culture, Creativity & Inclusive Society
25/3	Cluster 5: Climate, Energy & Mobility
30/3	Cluster 6: Food, Agri, Environment & Natural Resources



European Networks Circular Economy



European Technology Platform
for Sustainable Chemistry



EUROPEAN
RAW MATERIALS
ALLIANCE | ERMA





LIFE

- Innovative (environmental) technology or development and restoration of nature conservation; **Pilot and Demonstrations**
- Target group: public and private bodies
- 1- 3 million Euro per project, 50 - 60% funding
- **LIFE ENV focus on 3 strands:**
 1. Nature and Biodiversity
 2. **Environment and Resource Efficiency / Circularity**
-> **Demo- and pilots , close to market**
(typical funding: **1 – 3 mln**)
 3. Information and **Governance**
- www.rvo.nl/LIFE
- ec.europa.eu/LIFE
- **Expected: New call 2021 in April; 1st deadline June 2021**





Closing the loop

PolyStyreneloop

www.polystyreneloop.eu

- > Total budget: 8.4 mln
- > LIFE funding: 2.7 mln



With the contribution
of the LIFE financial
instrument of the
European Community
LIFE 16 ENV/NL000271





LIFE | Horizon

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<i>Budget</i>	5.5 billion	90 billion



National Contact Points

Rijksdienst voor Ondernemend Nederland
(RVO.nl)

Can you review my proposal

In which European call
should I submit?

Do I stand a chance?

How do I write a
winning proposal?

Which partners
do I need?

What are the financial
and legal consequences?

How to get in touch
with Brussels?

Horizon Europe



Cluster 4: John.Heynen@rvo.nl;

Hans.Bosch@rvo.nl

Cluster 5: Corinne.vanvoorden@rvo.nl; Alexander.vanDor

Cluster 6: Corinne.vanvoorden@rvo.nl; Alexander.vanDor

Other European innovation programmes

EIC Accelerator, Eurostars:

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Teun.Bolder@rvo.nl

Interreg: Esther.Veenendaal@rvo.nl



www.rvo.nl



QUESTIONS?





Horizon Europe

2021-2027

€ 80 billion

Horizon Europe

EIC Accelerator

The leading EC Funding Instrument
for Deep Tech Innovators

Jonneke Leijsten

National Contact Point Horizon Europe
EIC Accelerator

4 February 2021



Horizon Europe – Structure

Pillar 1

Excellent Science

European Research Council

Marie Skłodowska-Curie Actions

Research Infrastr

Wider

Widening partic

Pillar 2

Global Challenges and European Industrial Competitiveness

- Clusters
- Health
- Culture, Creativity and Inclusive Society
- Civil Security for Society
- Digital, Industry and Space
- Climate, Energy and Mobility
- Food, Bioeconomy, Natural Resources, Agriculture and

Pillar 3

Innovative Europe

European Innovation Council

European innovation ecosystems

European Institute of

THE EIC: EU LEADERSHIP IN THE NEXT WAVE OF INNOVATION



more innovations
that create
the new markets
of the future

scaled-up
companies
and higher
SME growth

attract more
private-sector
investors
to innovation

more
entrepreneurship
and
risk-taking

more accessible
and user friendly
support
for innovation



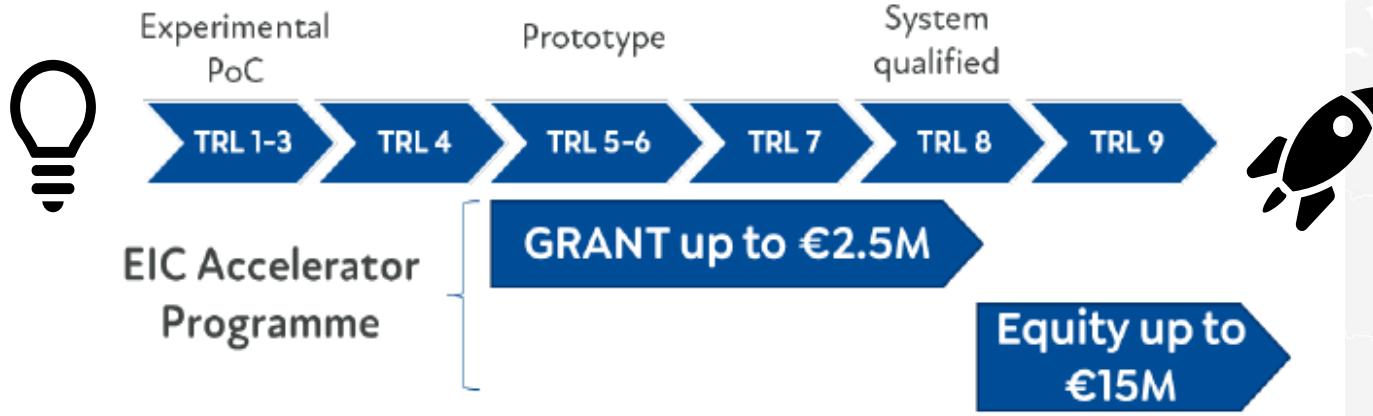
EIC Accelerator

- > Supporting Deep Tech innovation champions with the ability to scale
- > Market creating and/or disruptive innovations addressing major societal challenges in line with EU strategic priorities





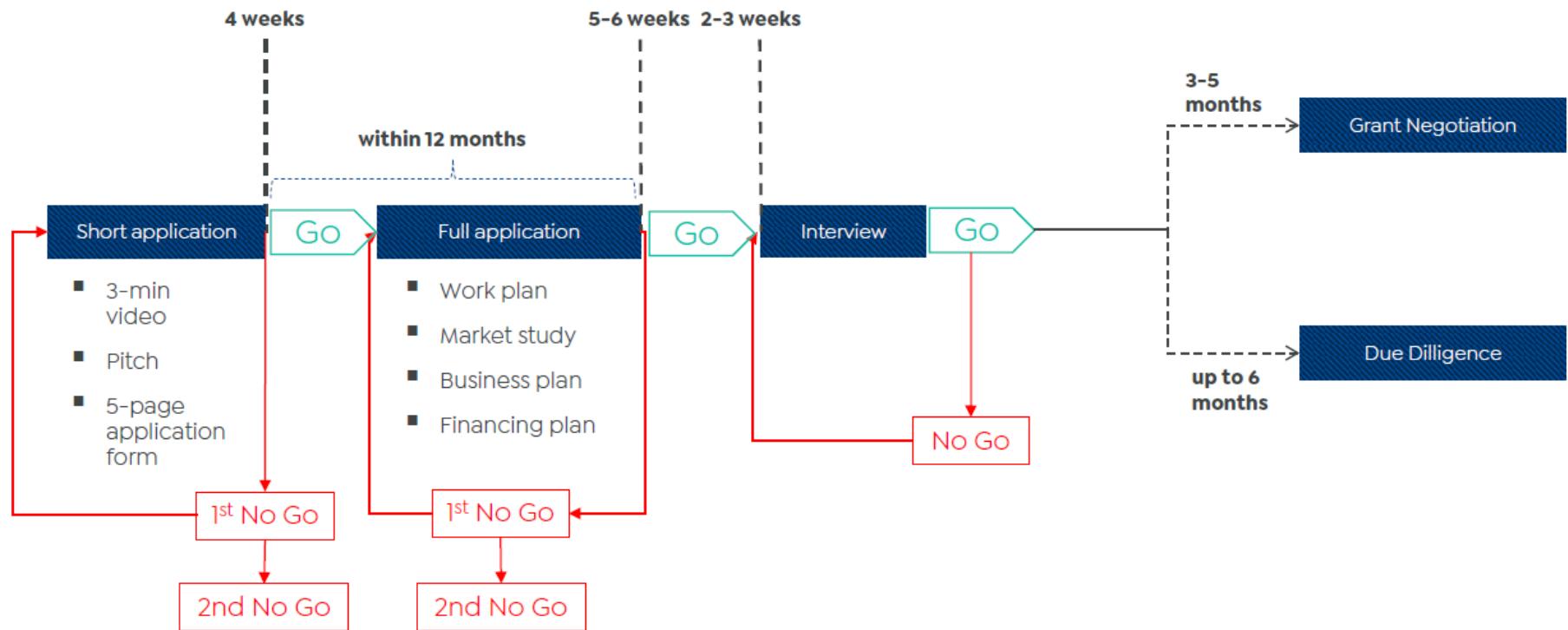
Funding Eligibility



- > **Grant Component:**
 - Minimally TRL 5/6 reached
- > **Equity Component:**
 - Typically fund other TRLs as needed
 - Typically above TRL 8



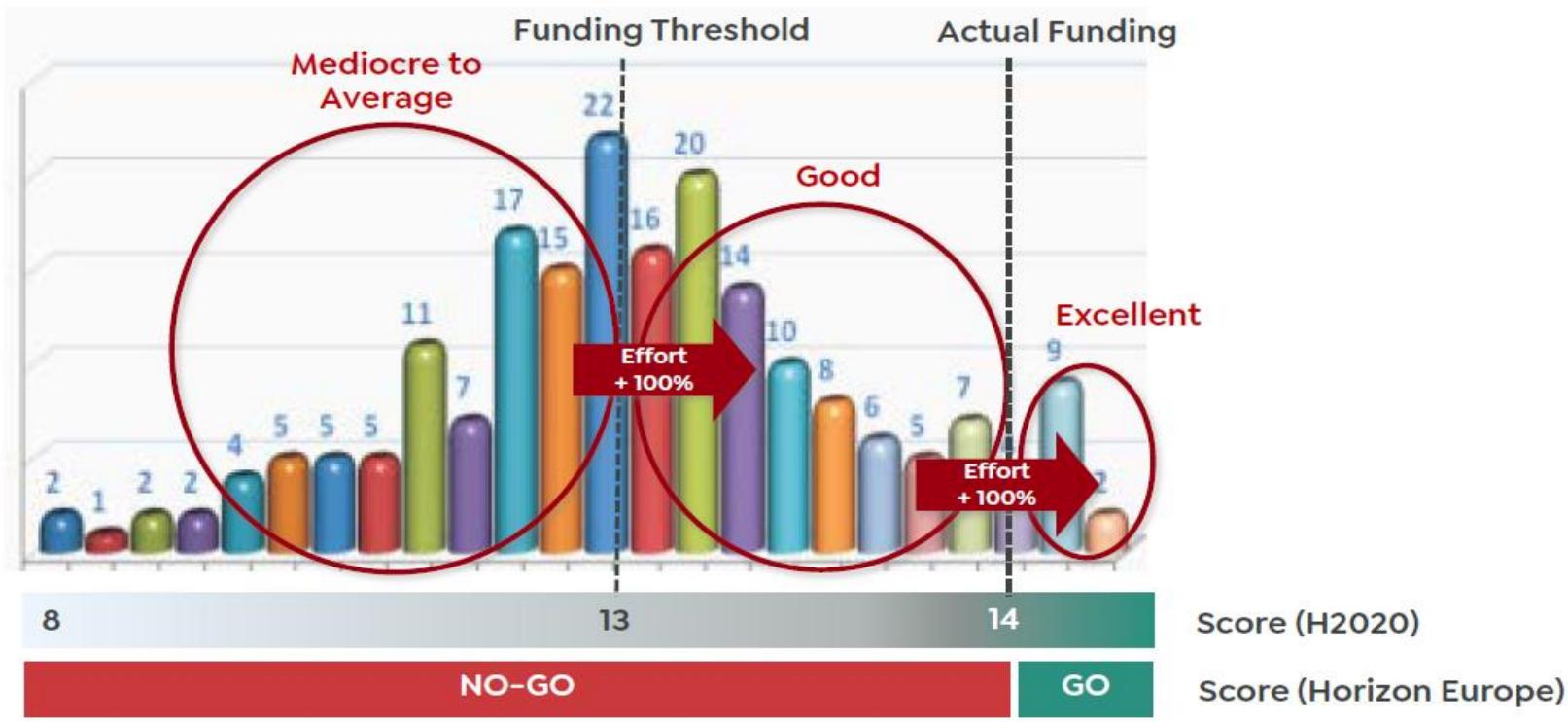
(New) Application Process





Typical score distribution during pilot

Nb of Proposals

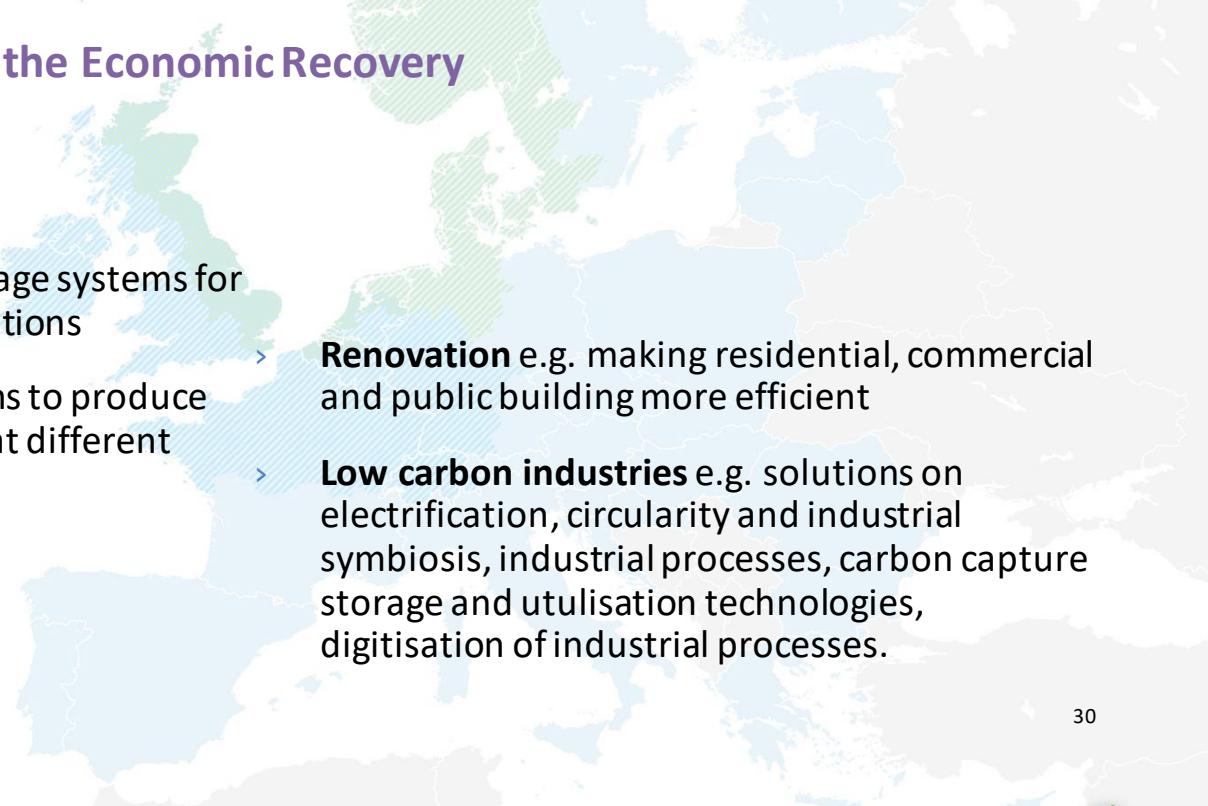




Strategic Challenge: Green Deal

Green Deal innovations for the Economic Recovery

(6 October 2021)

- 
- > **Batteries** and other energy storage systems for stationary and transport applications
 - > **Green Hydrogen** e.g. innovations to produce and store renewable hydrogen at different scales
 - > **Renovation** e.g. making residential, commercial and public building more efficient
 - > **Low carbon industries** e.g. solutions on electrification, circularity and industrial symbiosis, industrial processes, carbon capture storage and utilisation technologies, digitisation of industrial processes.



SME Instrument Phase 2 & EIC Accelerator pilot winnaars NL (Green)



L I G H T Y E A R



CIRCULARISE





Budget & Deadlines

EIC Budget

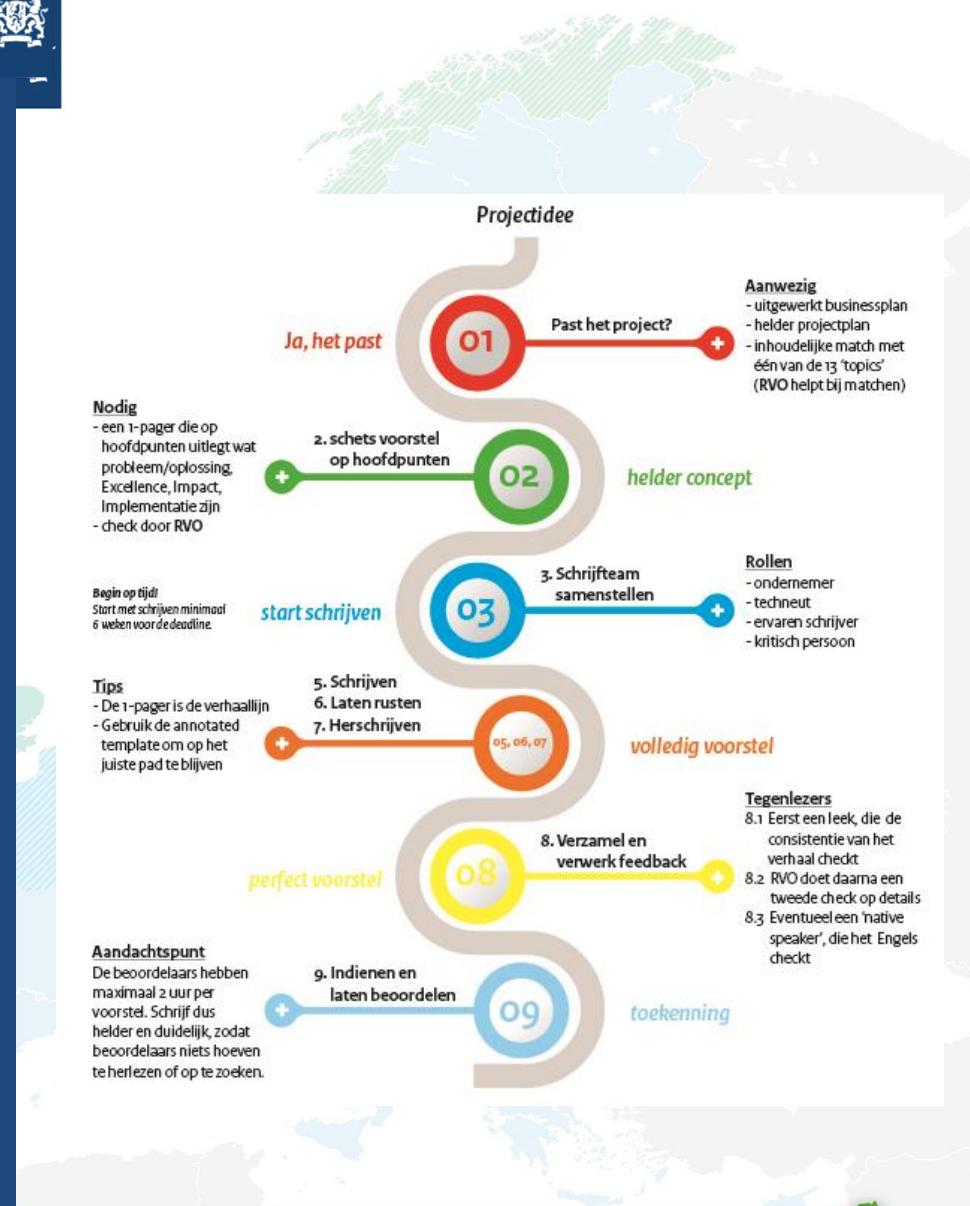


- 2021 Budget
 - Open calls: €601M
 - Challenge-driven calls: €507M
- 2021 Deadline
 - Short application:
 - Rolling basis
 - Long application:
 - 9 June 2021
 - 6 October 2021



Horizon Europe NCP's EIC Accelerator

- **Elke van de Graaf** | Agro, ICT
Elke.vandegraaf@rvo.nl 06-50447467
- **Jean-Luc Eggen** | Energie, Chemie, Space, Manufacturing
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- **Jonneke Leijsten** | Life sciences, Health, Milieu
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- **Marc Berntsen** | Quantum, Nano, Micro-electronica, Transport, Veiligheid, Defensie
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EUREKA

EUROSTARS



Voorlichting Eurostars – Grenzeloos
Circulair
4 februari 2021
Jonneke Leijsten, RVO



Co-funded by EUREKA member countries and the European Union Horizon 2020 Framework Programme



EUROSTARS is...



Joint programme
between
EUREKA
and EU



Dedicated
to R&D-
performing SMEs



Market-oriented



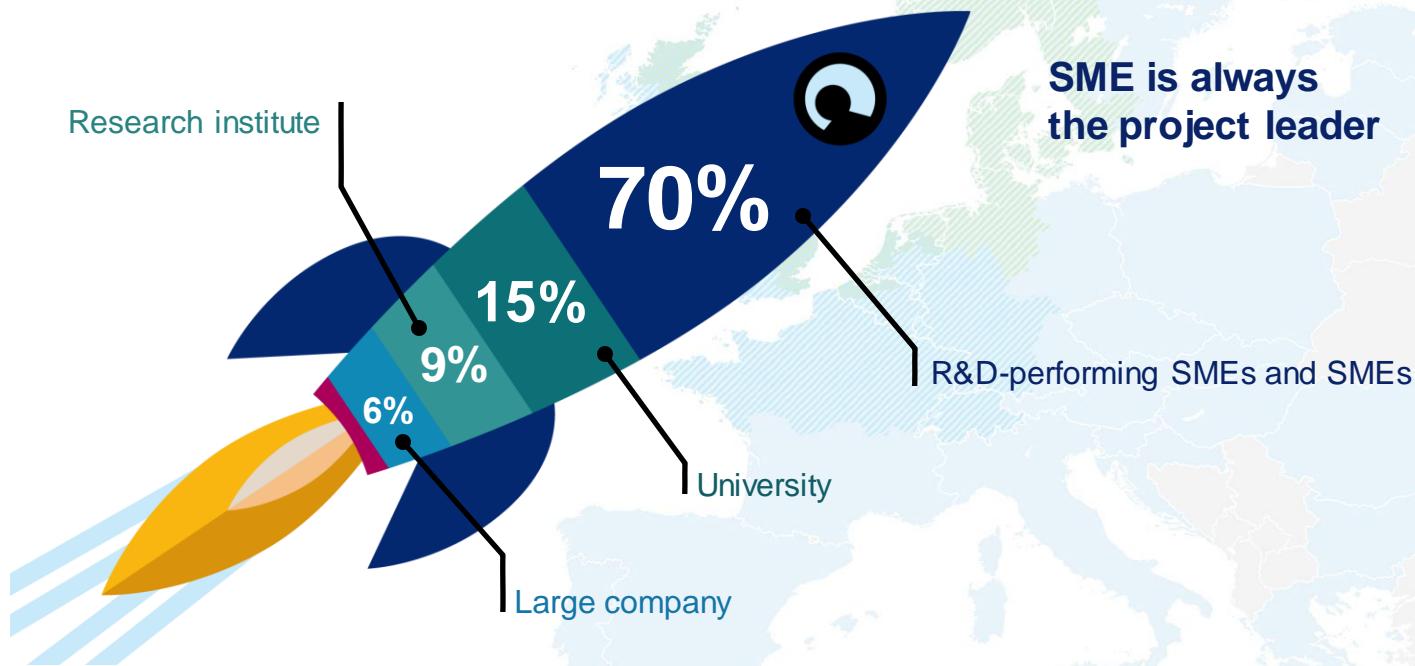
Bottom-up



International
cooperation



SMEs in the driving seat



Eurostars eligibility



Project leader is an R&D-performing SME from a Eurostars country



At least 2 participants

- Autonomous entities
- Legal entities

from at least 2 Eurostars countries



SMEs are in the driving seat
International balance



Project duration is max. 3 years
Market introduction within 2 years





A typical Eurostars project is...



2-3
participants



2-3
countries



average duration
30 months



average project cost
€1.4 million

...Market oriented and innovative (market introduction within 2 years after project completion)



Eurostars easy application

CONTACT
your NPC

Complete the
APPLICATION FORM

PROJECT IDEA

1

3

2

4

5



EVALUATION

SUBMIT

Upload
ANNEXES

REGISTRATION
My Eurostars



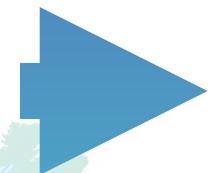
STEP 1

Assessment by independent experts



Implementation
Excellence
Impact

3 evaluation criteria



STEP 2

Scoring and ranking by independent panel



Independent expert panel

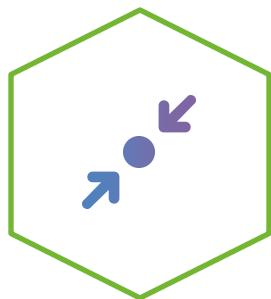
Criteria	
1	MAX 200
2	MAX 200
3	MAX 200
MAX	600

Ranking list	
Rank	Project
1	9252
2	9856
...	...
185	8954
186	9899
187	9134
...	...

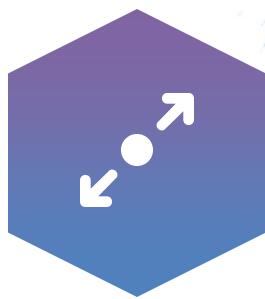


How to be successful in Eurostars?

Motives for participation



You need access to
someone else's
science/technology



You have a
solution for
someone else



Access skills you
don't have



Requires
collaboration
across the value
chain



Share risks



RVO EUROSTARS ADVISORS: DO NOT HESITATE TO CONTACT US!



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NPC; Chemistry,
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Energytech;
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Material & Transport,
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resources



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Electronics, IT &
Telecom tech;
Measurements &
Standards; Physical &
Exact Sciences



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Measurements &
Standards;



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Tech for protecting
humankind &
Environment



Niels.vanleeuwen@rvo.nl

Biological Sciences/Tech;
Digital Health



Rijksdienst voor Ondernemend
Nederland

INTERREG

NWE / NSR / EUROPE

Investeert in innovatie & duurzaamheid

INTERREG Noord West Europa

Gé Huismans
4 feb 2021

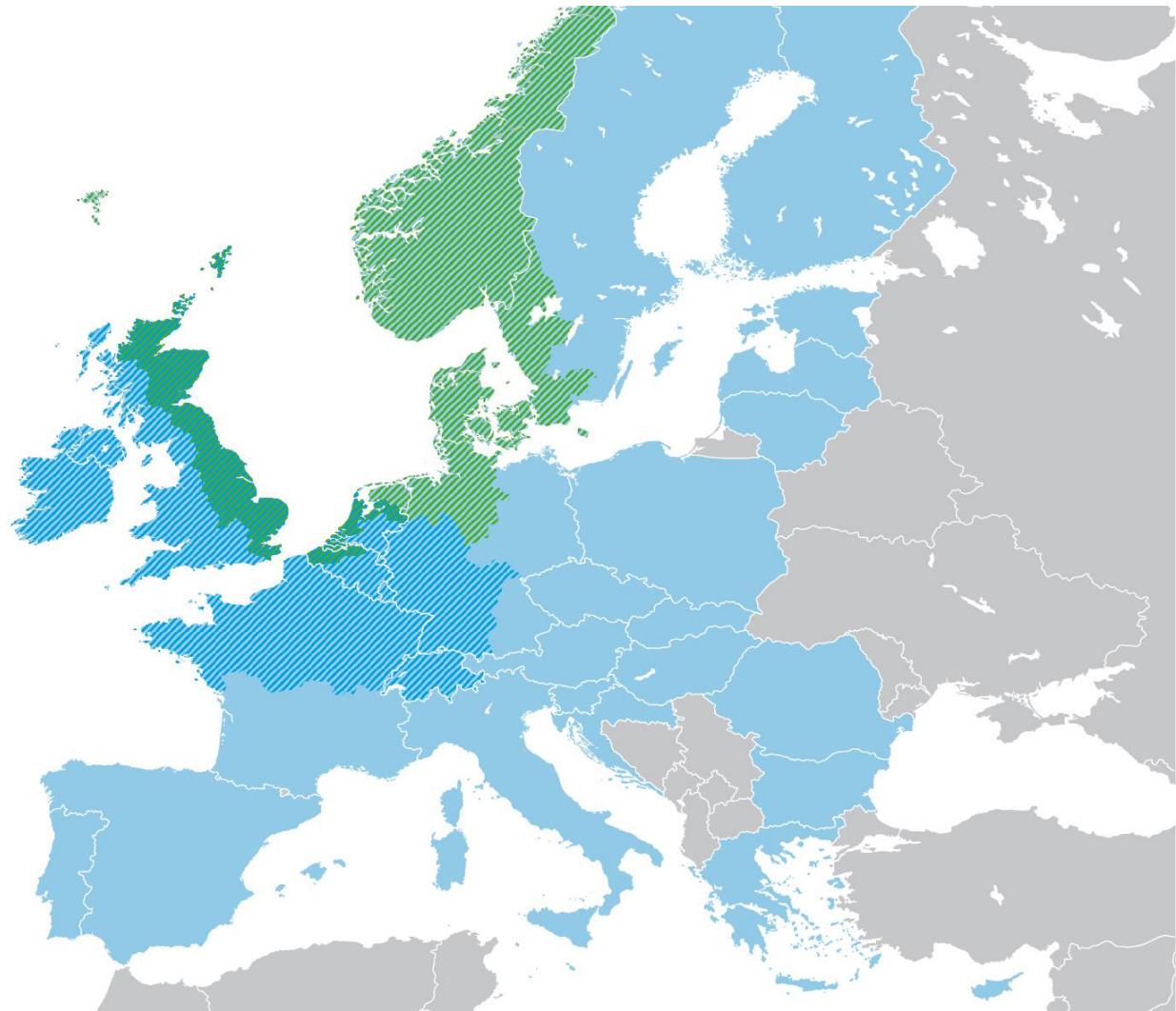


>> Duurzaam, Agrarisch, Innovatief en Internationaal Ondernemen



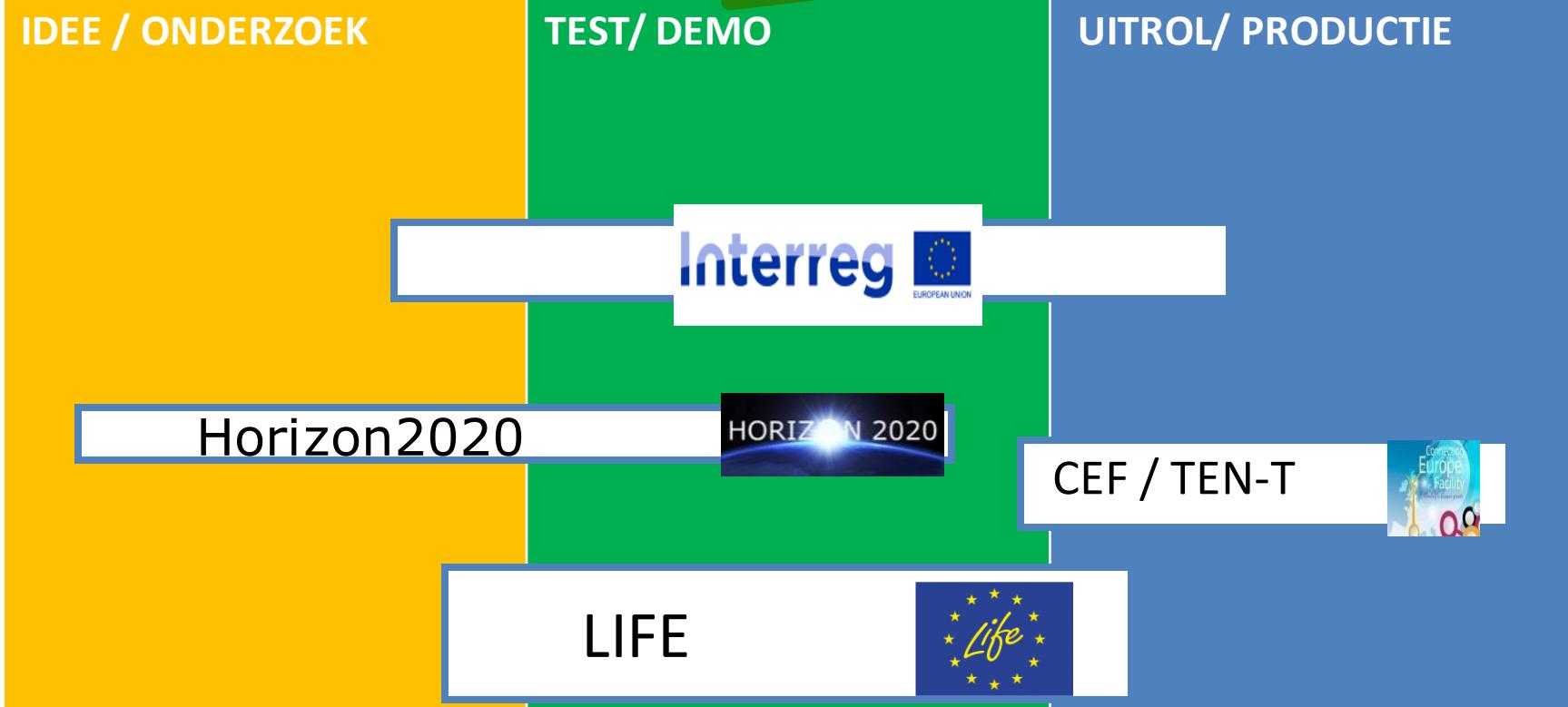
De programma's binnen INTERREG (internationale programma's)

- Regio's INTERREG North West Europe (NWE)
- Regio's INTERREG North Sea Region (NSR)
- Regio's zowel INTERREG NWE en NSR
- Regio's INTERREG Europe





Interreg basics





Programma's binnen INTERREG

Uitgangspunt: Gericht op de regio: versterken van regio's en het verkleinen van de verschillen tussen regio's (sterken helpen zwakkeren; gebruik maken van verschillen)

NWE

- Versterken van de innovatiecapaciteit van regio's en organisaties
- **Efficiënt gebruik van materialen en grondstoffen**
- Versnellen van de overgang naar een koolstofarme economie

NSR

- Versterken van onderzoek, technologische ontwikkeling en innovatie
- **Efficiënt gebruik van materialen en grondstoffen**
- Aanpassingen aan klimaatverandering en behoud en bescherming van het milieu
- Duurzaam vervoer

Europe

- Versterken van onderzoek, technologische ontwikkeling en innovatie
- Verbeteren van het concurrentievermogen van het MKB
- Overgang naar een koolstofarme economie
- Behoud en bescherming van het milieu en **efficiënte omgang met hulpbronnen**

Maar daarnaast in NL ook nog: 2-zseen, NL-DE, NL-VL en Euregio Maas-Rijn: 4 cross border programma's onder coördinatie van het ministerie van EZK.



Kenmerken NWE en NSR Programma

- Budget huidige programmaperiode (2014-2020) NWE 372 miljoen; NSR 167 miljoen EUR
- Gem project 2,5 – 5 miljoen EUR, duur ca. 4 jaar
- Max 60% cofinanciering
- Indienen op specifieke doelstelling/prioriteit
- Consortia van minimaal 3 partners uit tenminste 3 landen uit het NWE/NSR gebied
- Private partijen gewenst, niet verplicht
- Lead Partner is altijd partij zonder winstoogmerk
- Tastbare en meetbare resultaten, economisch georiënteerd
- **Nieuwe programma periode vanaf 2021: Circulaire Economie belangrijke prioriteit**



Innovatie

CIRCTEX

Innovation towards a circular future for
NWE textiles



- **Doel:** Ontwikkeling van recycling- en productietechnologieën in een gesloten procesketen voor PET-werkkleding, het verminderen van niet-hernieuwbare inputmaterialen en de ecologische impact in NWE-textiel
- **Resultaat:** Technische aspecten en processen voor circulaire PET-werkkleding ontwikkeld tot TRL 7 (proof-of-concept): Mechanische en chemische recycling; Spinnen en weven; Productie zonder afval; Wear2 garen en industriële microgolf voor montage en demontage; Recyclebare laminaten, logo's en accessoires; Opvang- en sorteersystemen
- **Na project:** Opzetten van een innovatienetwerk, waarbij belanghebbenden in heel NWE actief worden betrokken // Initiëren van een internationale standaard voor circulair textiel



LP: MODINT (NL)



Thema: Circulaire Economie



Budget: 4,0 / 2,4 ERDF



E: koppert@modint.nl



CE TA Consumentengoederen,



Looptijd: sep 2019-dec 2022



P (10): NL(4)|BE|UK|FR



SDG: 12



CHARM

Circular Housing Asset Renovation & Management – No More Downcycling



- **Doel:** Optimaliseren hergebruik bouw- en sloopafval in de huizenbouw
- **Resultaat:** 36% hergebruik (ipv 10% nu) door strategieën voor circulair bouwen te ontwikkelen, te testen en demonstreren, richtlijnen te ontwerpen voor circulair inkopen met sociale woningbouw organisaties // opzetten van een materialen uitwisselplatform voor huizen in de sociale huursector: circulaire huizen in Eindhoven; plastic-vrije huizen (UK) en inspiratiehuis (FR)
- **Na project:** Er zullen meer sociale woningbouw organisaties worden betrokken zodat deze de circulaire strategieën overnemen en de impact groter wordt



Budget: 7 / 4 mio ERDF



Looptijd: okt 2018-okt 2022



LP: Technische Universiteit Delft (NL)



E: m.h.boonstra@tudelft.nl



P (8): NL (3)|UK|FR|BE



Thema: Circulaire Economie



CE/ Transitieagenda Bouw,



SDG: 11 / 12



Circulaire Economie 

FOODHEROES

Improving resource efficiency through designing innovative solutions to reduce food waste



Doel: Tegengaan voedselverspilling in de eerste fasen van de voedselketen

Resultaat: Vermindering voedselverspilling met 4500 ton door 19 oplossingen en voorkomen van het doden van een half miljoen mannelijke kuikens en geiten

120 MKB bedrijven hebben oplossingen en technieken ontwikkeld, getest en geïmplementeerd

Na project: Interesse gewekt van high-level beleidsmakers op nationaal en EU niveau (EU Gezondheid en Voedselveiligheid) om zo maximaal impact te behalen, de oplossingen verder uit te rollen en op te schalen



LP: ZLTO (NL)



Thema: Circulaire Economie



Budget: 5,7 / 3,4 ERDF



E: marjon.krol@zto.nl



Looptijd: sep 2016-sep 2020



P (13): NL(3)|BE|FR|DE|IE |UK



CE TA Voedsel,



SDG: 12 / 15



Contact en meer info

www.nweurope.eu

www.northsearegion.eu

www.interregeurope.eu

www.nweurope.eu/projects/project-search

Rol RVO:

Advies in gehele traject tot indiening

Contactpersoon voor Interreg NWE:

Contactpersoon voor Interreg NSR:

Contactpersoon voor Interreg EUROPE:

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albin.hunia@rvo.nl

macchtelijn.brummel@rvo.nl

Op de hoogte blijven van ontwikkelingen? Mail voor aanmelding Nieuwsberichten naar

esther.veenendaal@rvo.nl