WINTER SCHOOL ProMIS

Edizione 4 – Anno 2025

“L’esperienza delle Partnership in Europa con Horizon Europe e in Italia con il PNRR: sinergie e azioni implementative nei livelli nazionali, regionali e locali”

11-12-13/03/2025

PERUGIA

Giorgio Clarotti
Commissione Europea – DG RTD - People

ProMIS
PROGRAMMA MATTONE INTERNAZIONALE SALUTE

Research & Innovation

Outline

20 Years of Joint Programming

From ERA Partnerships to Innovation Eco-Systems

I. WHY? - The Rationale

II. HOW? – The Process

III. The Impact (up to 2016)

IV. Horizon Europe – Health

V. Regional participation – Health

1. JP to address major societal challenges

- Science and Technology must <u>contribute</u> to solving major societal challenges
- Public Research Programmes have solved societal challenges:
  - Food – F. Haber (Fertilizer), N. Burlaug (Green revolution)
  - Health – L. Pasteur, A. Fleming, …
  - Urbanisation (First world conference of 1898… aborted after 3 days)

But there are benefits not optimised due to the compartmentalisation of public research funding in ERA the European Union (27 + 1 Research Areas)

☞ **national research programmes have their place…**

☞ **cannot tackle ALONE some major societal challenges**

European Commission

1. Joint Programming Process (Definition)

- Member States engaging
  - voluntarily and on a variable geometry basis
  - in the definition, development and implementation of common strategic research agendas
  - based on a common vision on how to address major societal challenges.
- It may involve collaboration between existing national programmes or the setting up of entirely new ones.
- It entails putting resources together,
  - selecting or developing the most appropriate instrument(s), and
  - collectively monitoring and reviewing progress.

1. Joint Programming Process (Definition)

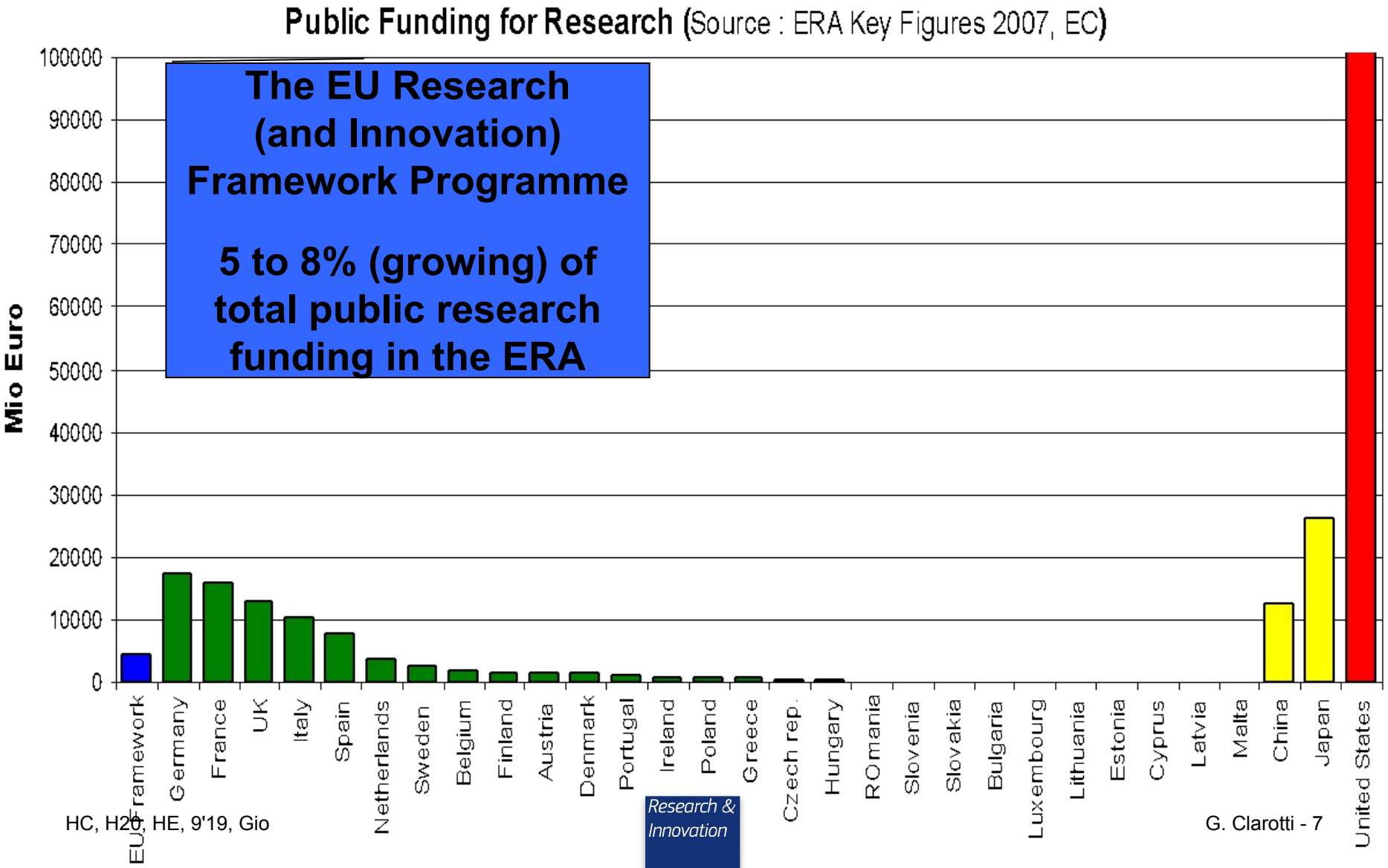
What Joint Programming is not

- *Not about asking for more money from the Framework Programme*
- *Not about asking for more power at EU level*
- *Not a new instrument for Community research*
- *Not involving Community funding a priori*

The EU Research (and Innovation) Framework Programme

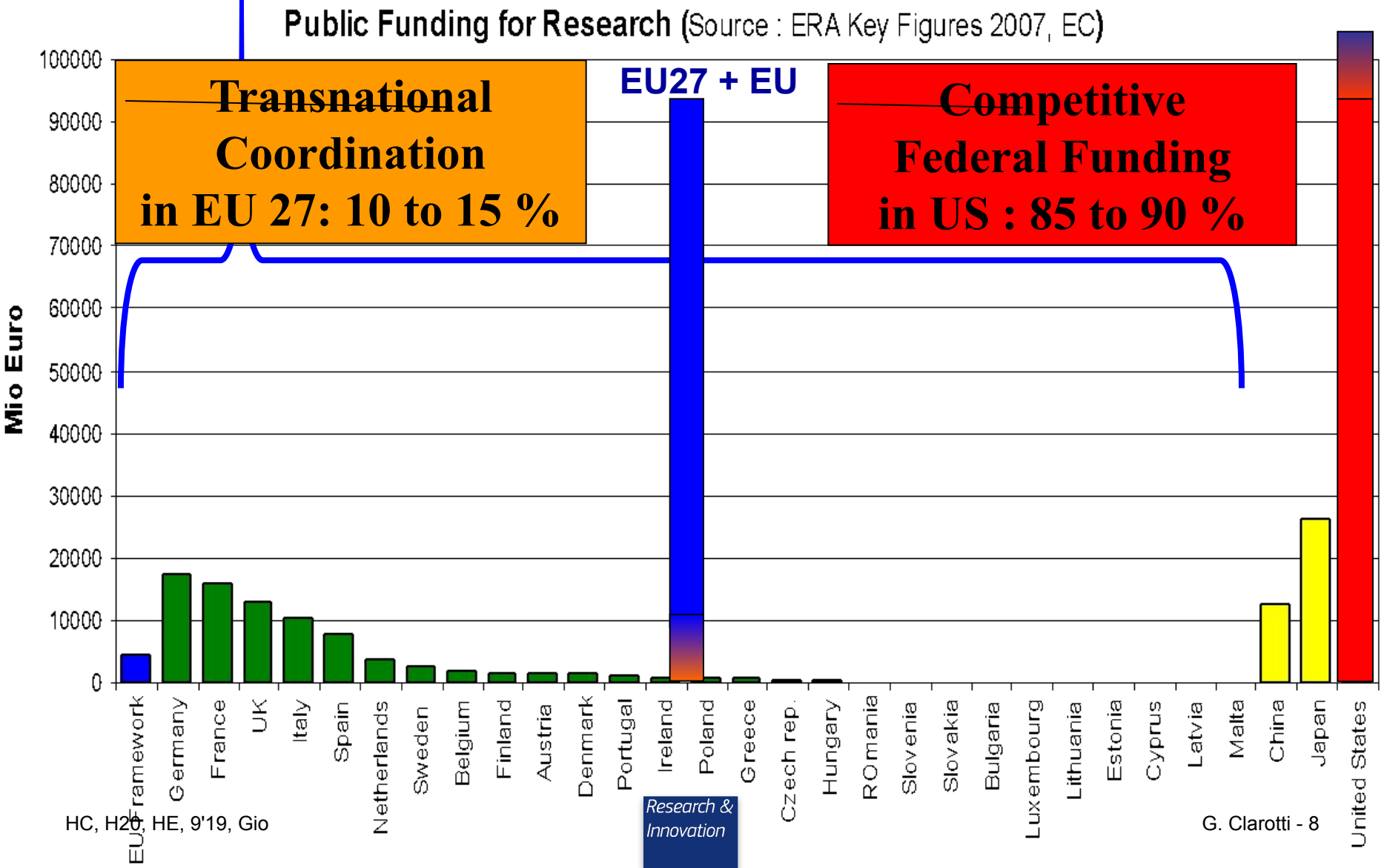
MAPPING EUROPE

A COMPARTMENTA-LIS ED ERA



MAPPING EUROPE

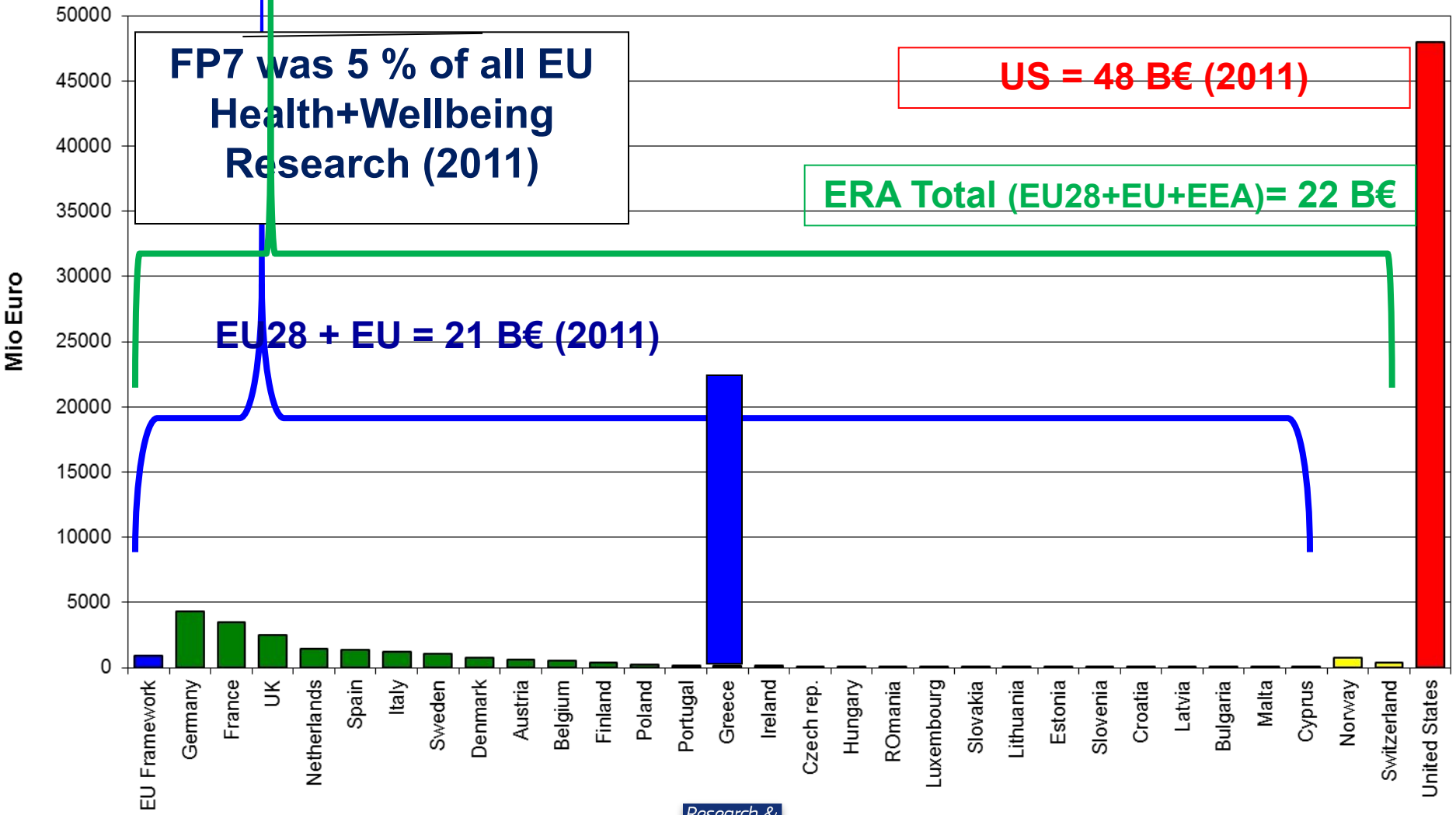
A COMPARTMENTA-LISED ERA



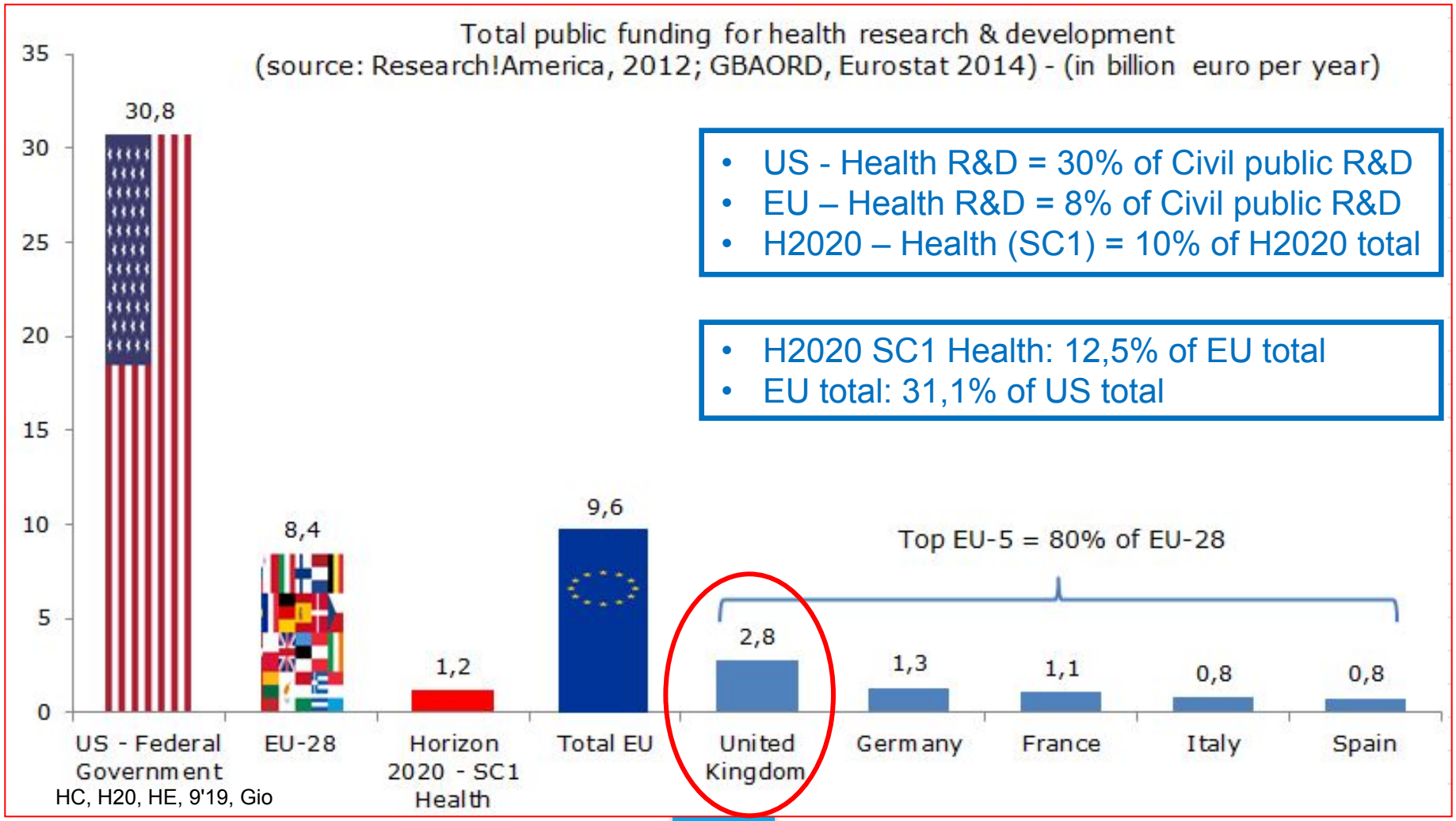
MAPPING EUROPE

SC1/Health+Wellbeing RESEARCH

Public Funding for Health Research (Source : Eurostat, EC, Janssen* 2015)



Health R&D in Europe and in US (NABS)



- US - Health R&D = 30% of Civil public R&D
- EU – Health R&D = 8% of Civil public R&D
- H2020 – Health (SC1) = 10% of H2020 total

- H2020 SC1 Health: 12,5% of EU total
- EU total: 31,1% of US total

HC, H20, HE, 9'19, Gio

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2. Implementing JPIs

First wave, SELECTED in 2009, LAUNCHED in 2010

JPI	Progress (3/'14)	Countries
Neurodegene-rative diseases (JPND) (Alzheimer's)	1. Council conc. (12/'08) & (12/'09) 2. SRA adopted in Nov. 2011 - First joint calls in Jan. 2011 on: * Centres of Excellence ~ 5 M€ * Biomarkers for Alzheimer's ~15 M€ 3. 9 calls in Impl. plan of Sep. 2012 ~100 M€ + Member of Ageing EIP	26 Countries Led by Fr JPI+FP7 20% of ERA
Agriculture, Food Security and Climate Change (FACCE)	1. Council conclusions (10/'10) 2. SRA adopted in Oct. 2012, 15 ERA-NETs 3. 8 calls in Impl. plan of Apr. 2013, ~100 M€ + Member of Agri EIP	21 Countries Led by Fr/UK Global Role ~7% of ERA

2. Implementing JPIs

First wave, SELECTED in 2009, LAUNCHED in 2010

JPI	Progress (3/'14)	Countries
Healthy diet for a healthy life	- Council conclusions (10/'10) - SRA with Food TP adopted in June 2012 - 1 Pilot Call 2012 (17 M€ - 6 in-kind) - Impl. Plan adopted in March 2014 - 3 Joint Calls and Actions, 30 M€ + Member of Agri EIP	22 Countries Led by Nl
Cultural Heritage and global change: a new challenge for Europe	- Council conclusions (10/'10) - SRA adopted May 2013 - 1 Joint Call pilot in Jan. 2013: 3 M€ - Joint Foresight with MS and EC staff	18 Countries Led by IT - 2 Ic,Tr due to crisis

2. Implementing JPIs

Second wave, SELECTED in 2010, LAUNCHED in 2011

JPI	Progress (3/'14)	Countries
More Years, Better Lives (Demographic Change)	- Council conclusions (9/'11) - SRA adopted Jan. 2014 - 1st Joint Call due in 2014 + Member of Ageing EIP	14 Countries Led by De+Fi+It + Link to Art.185 AAL
Anti-Microbial resistance	- Council conclusions (12/'11) - 'SRA for the World' in April 2014 ? - 1st Joint Call due in 2014 (14 M€) + Link to ERA-NET "ERA-Infect"	18 Countries Led by SE
Healthy and Productive Seas and Oceans	- Council conclusions (12/'11) - Link to EU Maritime strategy - SRA in 2014, Secretariat in Bxl - ~15/20 M€ in joint actions (Deep sea mining, Microplastics…)	19 Countries Led by No+Es +Be+FR +Bonus Art.185

European Commission

2. Implementing second wave JPIs (2011)

JPI	Progress (3/'14)	Countries
Water Challenges for a Changing World	- Council conclusions (12/'11) - SRA adopted May 2013, IP in 10/'13 - Pilot call in 2013 (9 M€) + Member of Water EIP	17 Countries (90% ERA) Lead Es+Nl
Climate JPI - Connecting Climate Knowledge for Europe (Clik'EU)	- Council conclusions (12/'11) - SRA adopted in May 2011 - Several Joint Calls since 2013 (12 M€) + Link to EIT-KIC Climate	13 Countries (80% ERA) Lead De+At
Urban Europe	- Council conclusions (12/'11) - Two calls in 2012 (25 M€) - Two for 2014-15 (45 M€) - SRA foreseen in 2015 + Member of Smart City EIP	14 Countries Lead At+Nl – 2 in 2011

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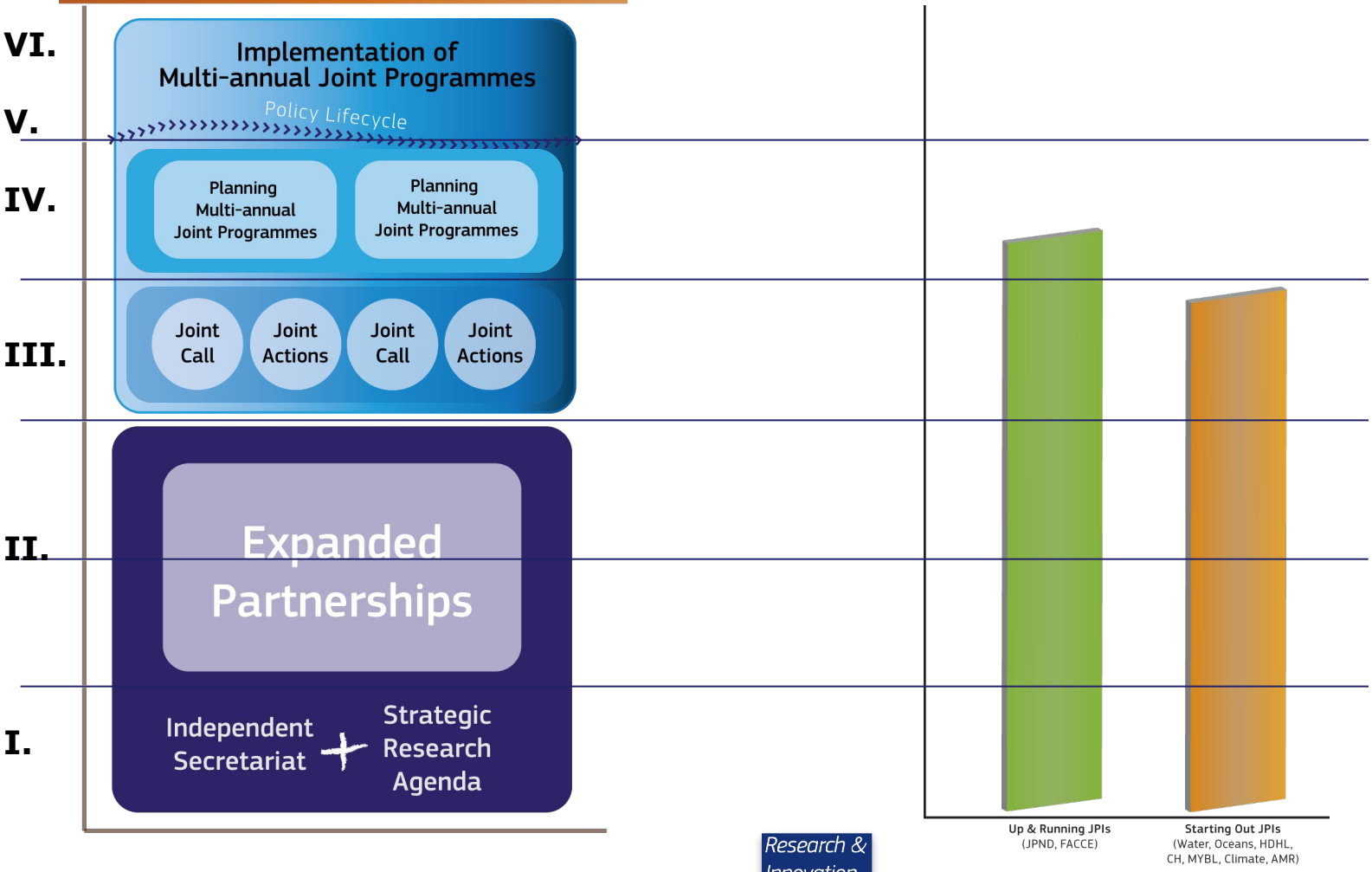
Benchmarking JPIs (end 2012)



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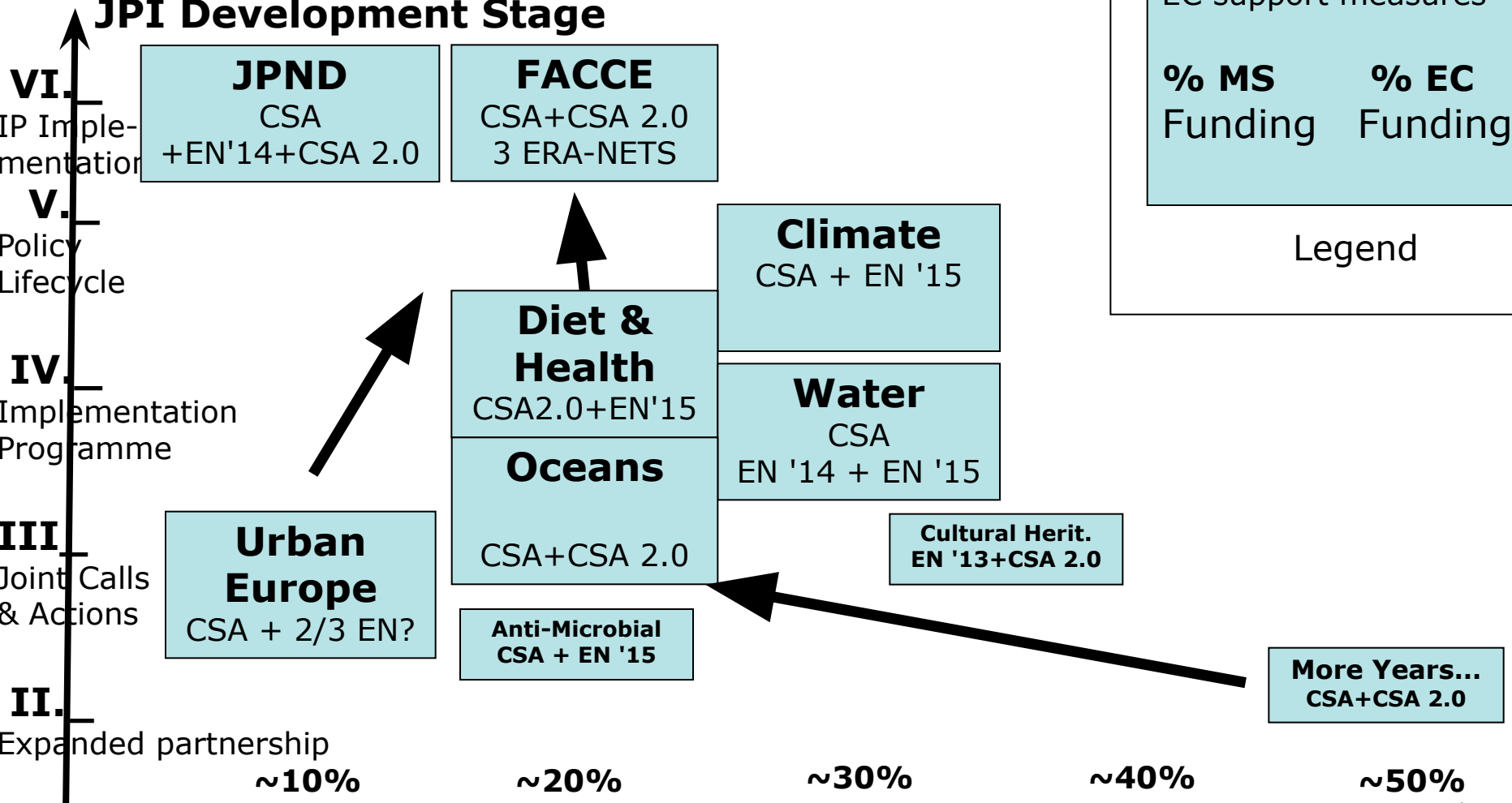
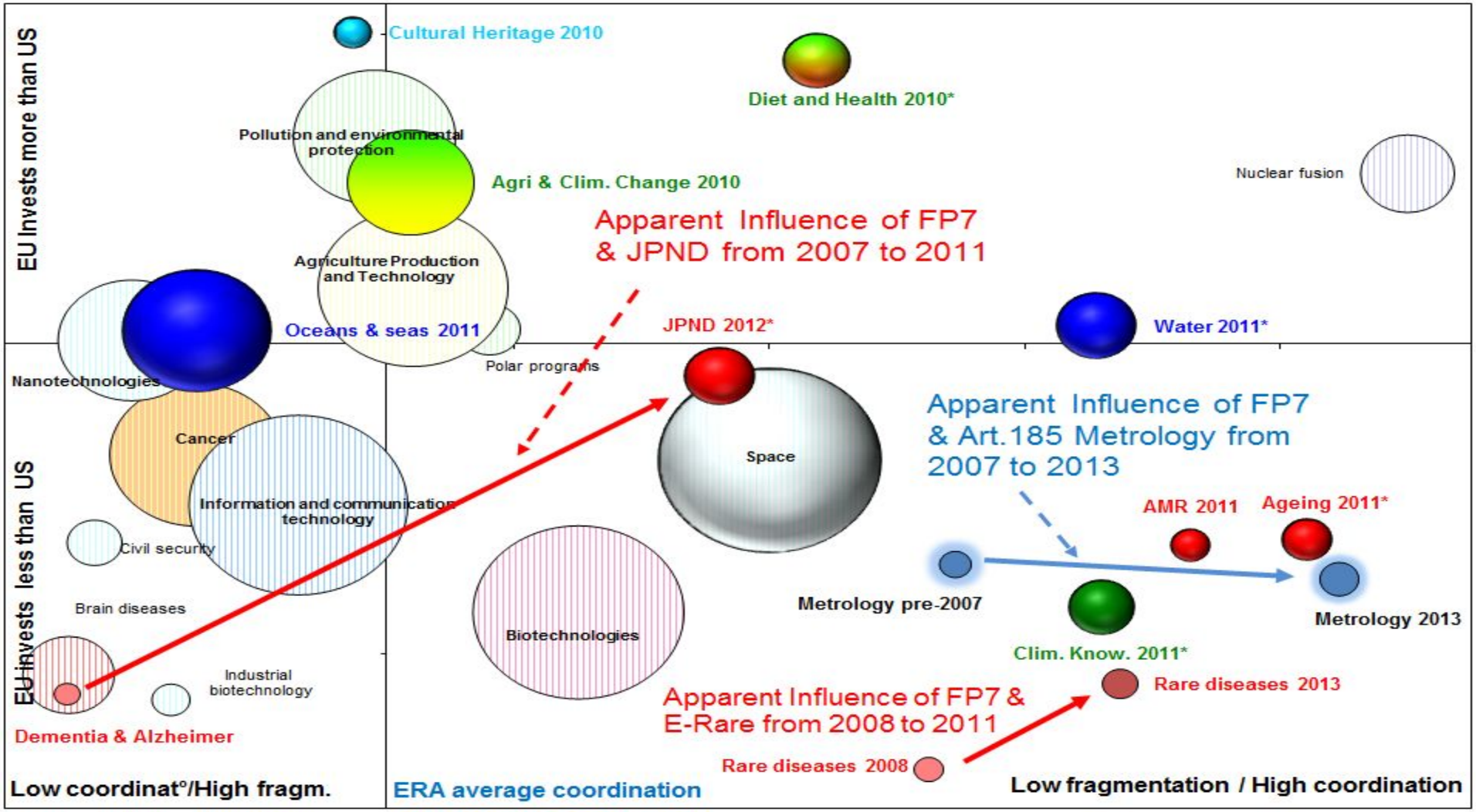
End 2013, by 2016

Benchmarking JPIs (2013 predictions for end 2016)



II. MAPPING ERA

P2Ps - on background of 2008 Chart –2012-Draft*



***Clarotti & Delescluse:** European Commission 2014*

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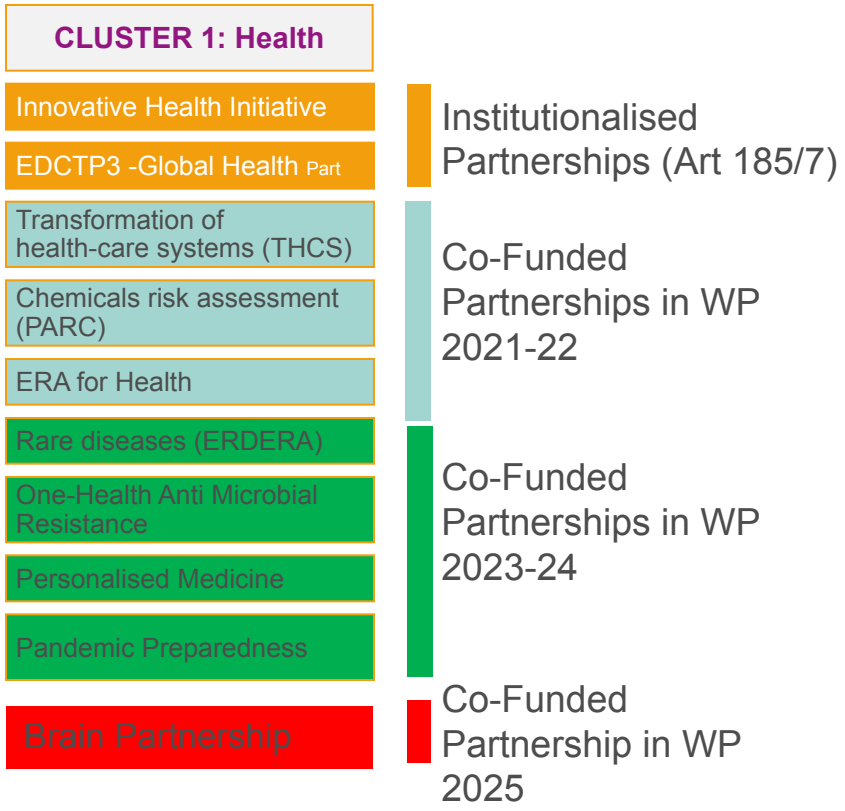
Horizon Europe – 50+10 European Partnerships

Partnerships

- Strategic Plan identified 49 co-programmed and co-funded partnerships (amongst which 2 JUs & 7 Health CFPs):
  - public-public;
  - public-private;
  - global initiatives.
- EC proposals for 10 institutionalised partner-ships (JUs) based on Art 185/187 (23 Feb 2021, link)
- link to HE partnerships website
- In 2025, the Second Strategic Plan identified 10 more Partnerships (1 in Health)
- ~In Total ~ 3100 mio€ will be invested by the Health Cluster in Partnerships (~38% of budget)
- Total investments > 7 Bio€ : 3 by EU, 2 by Industry & 2 by Public partners



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Horizon Europe – 40% of Health Cluster for 10 Health Partnerships

1. IHI – JU, Since 2004, In HE '21-'28: 2,400 m€ (1,200 by EU)
2. EDCTP3 – JU, Since 2004, '21-'28: 1,860 m€ (910 EU)
3. PARC – **CFP 50%** – Since 2015, '22-'32 - 400 m€ (200 EU)
4. ERA4Health – CFP 30% – 2022□'25□'33 - >343 m€ (110)
5. EPperMed – CFP 30% - Since 2012,'24-'34 –340 m€ (100 EU)
6. Transf. healthcare – CFP 30% – 2023-'33 – 305 m€ (92 EU)
7. ERDERA – **CFP 50%** – Since 2004 – '24□'27□'36 - 380 m€? (156 EU ?) – Including Health Network 'ERN) & SMEs
8. One Health AMR – CFP 30% - 2011– '25-'35 - 253 m€ (76)
9. Pand.Prep.Part. – **CFP 50%** - 2026□'28□'35– 200 m€ (100)

+ Brain Partnership - CFP 30% - 2008 – '26-'36 – 650 m€?(150)

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Horizon Europe – Region in 40% of Health Partnerships, but with < 1% of budget

1. IHI – JU, Since 2004, In HE ‘21-‘28: 2,400 m€ (1,200 by EU)
2. EDCTP3 – JU, Since 2004, ‘21-’28: 1,860 m€ (910 EU)
3. PARC – **CFP 50%** – Since 2015, ‘22-’32 - 400 m€ (200 EU)
4. ERA4Health – 2022□‘25□‘33 - >343 m€ (110) / 5 Regs, 2%
5. EPperMed – ‘24-’34 –340 m€ (100 EU) / 12 Reg, 10% (Cohe)
6. Transf. healthcare – 2023-’33 – 305 m€ (92 EU) / 5 Reg, 6%
7. ERDERA – ’24□‘27□’36- 380 m€? (156 EU ?) / Regions?
8. One Health AMR – ‘25-’35 - 253 m€ (76) / Regions ?
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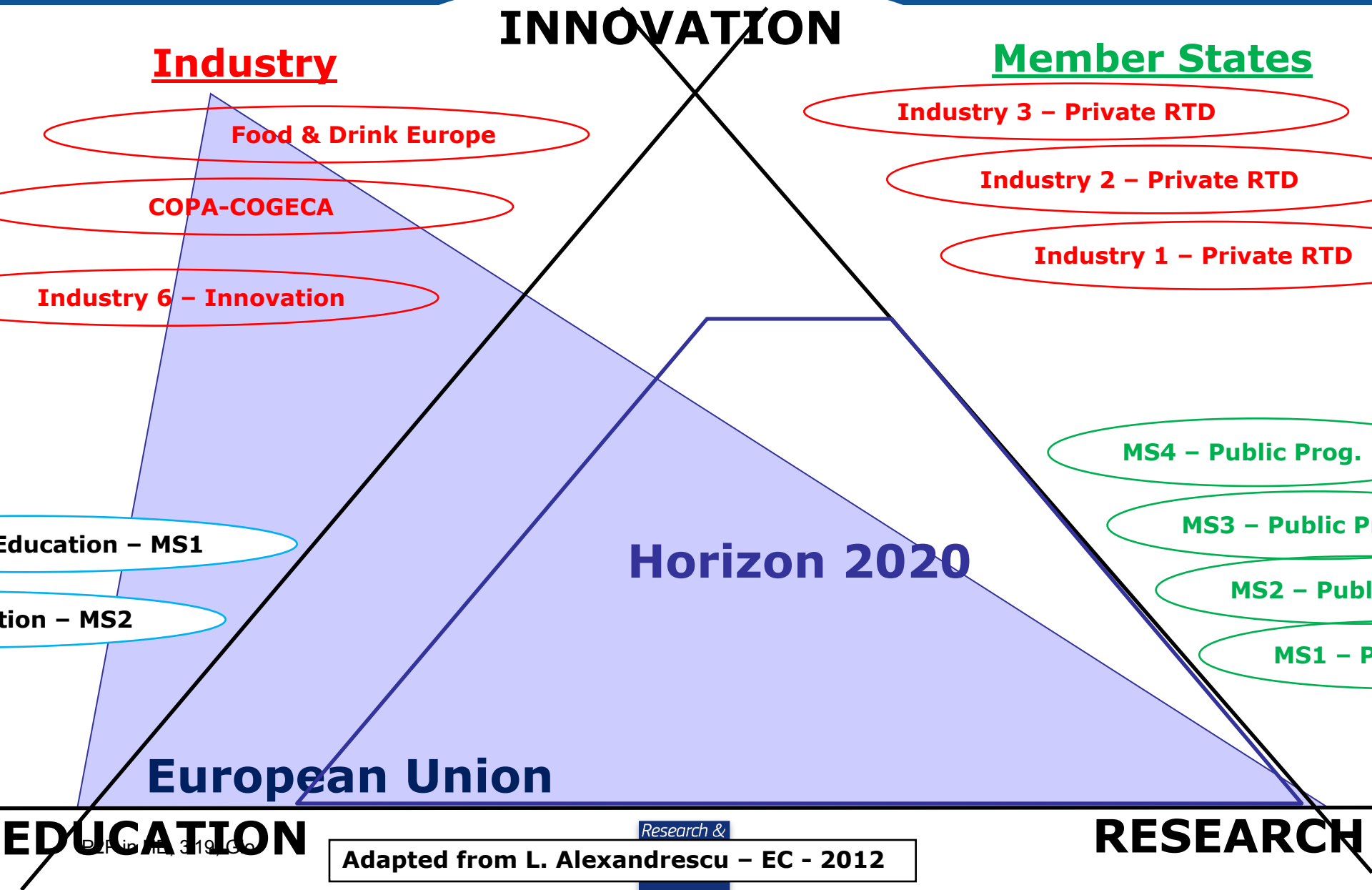
European Commission

Fig. 3.1

Knowledge triangle

The ERIA Landscape



Adapted from L. Alexandrescu – EC - 2012

Fig. 3.2

The ERIA Ecosystem

JPI Healthy diet..

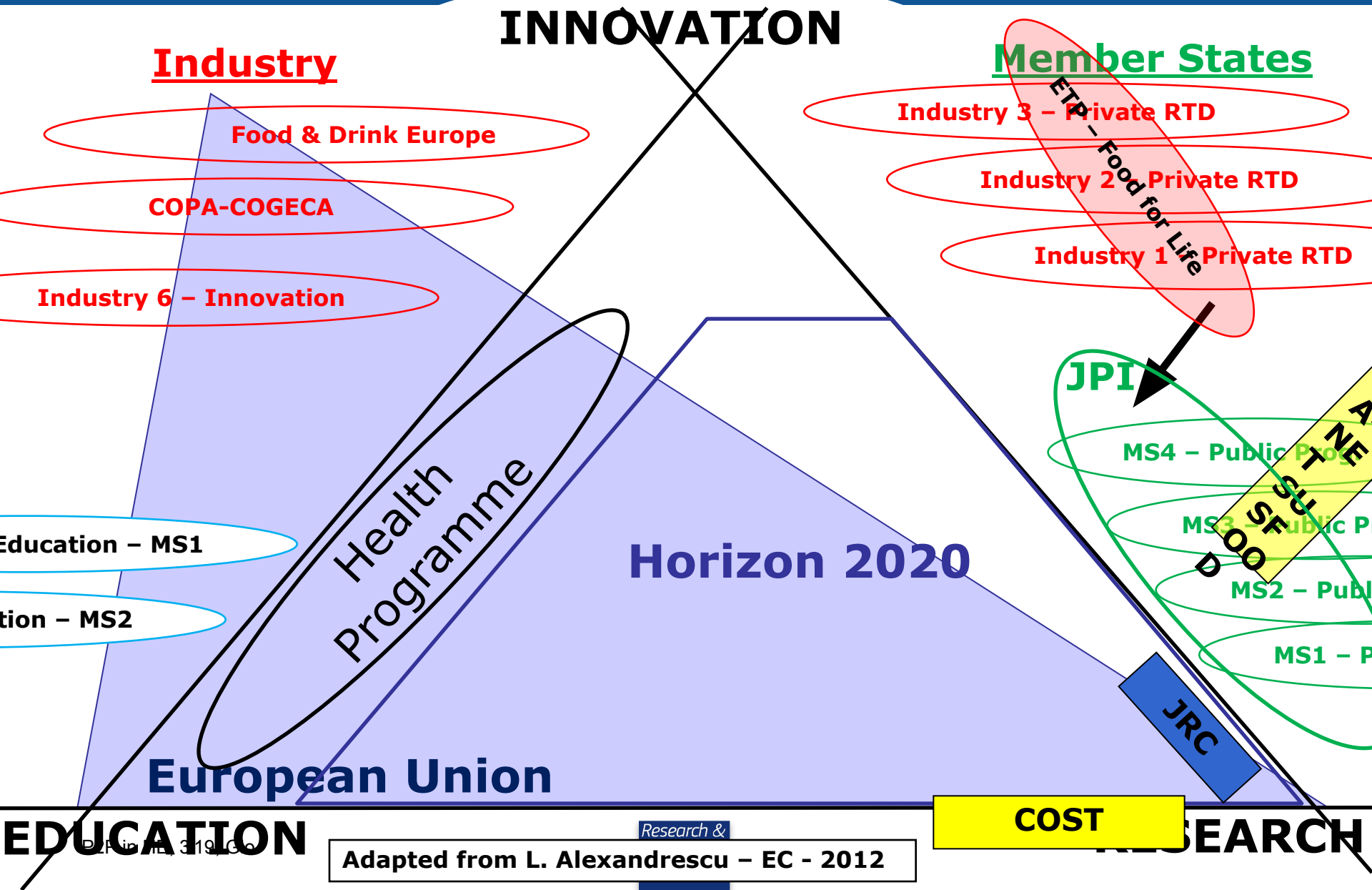


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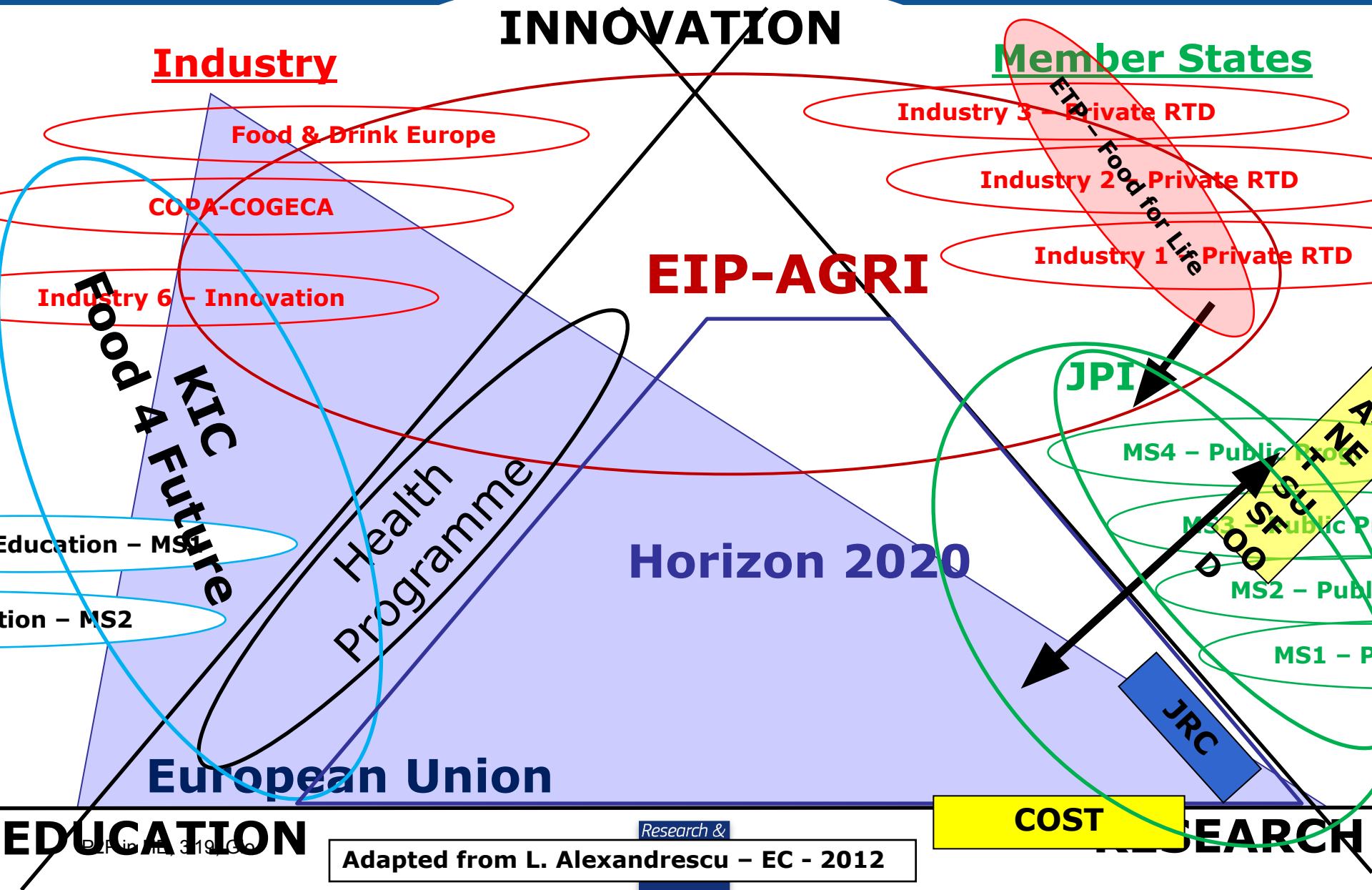
Fig. 3.3

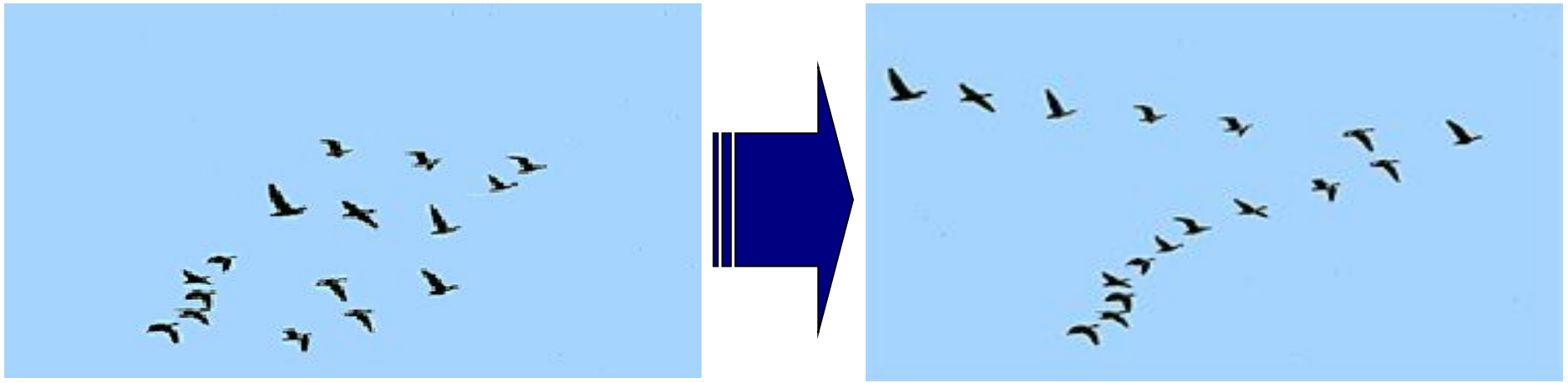
The ERIA Ecosystem

JPI Healthy diet..



Governance is key for effective Joint Programming

Nature shows us the way: Birds coordinating their efforts



☞ 71 % gain of efficiency

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