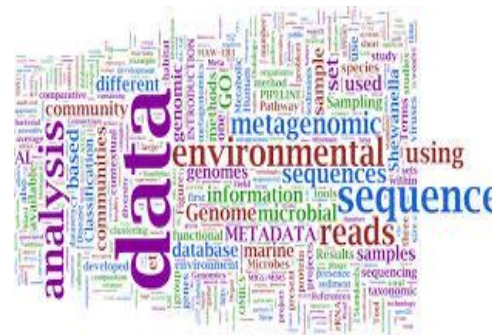
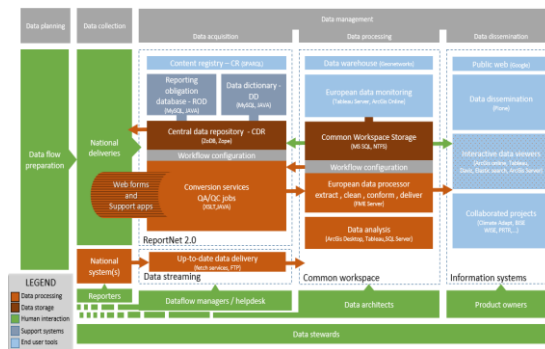


Trends in policy relevant European environmental information systems



Shared Environmental Information System (SEIS)

Open Data

Active dissemination

Copernicus

FP5,6,7

Horizon 2020

The „*envrionmental aquis*“

Fitness for purpose
eReporting

INSPIRE

SDGs

Aarhus convention



EEA's knowledge management based on the MDIAK model

In-situ monitoring, surveys,
satellite observations

(M)
Monitoring



Structure

Local, National, European,
Global, statistics

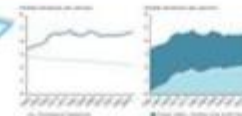
(D)
Data



Interpret

Indicators, environmental
accounting, information

(I)
Indicators



Integrate

Integrated assessments
across scales

(A)
Assessments



Communities and
academies

(K)
Knowledge, understanding, action

Reflect & act



Evolution of environmental monitoring, data and indicators – *some keywords*

MDIAK From monitoring to knowledge

DPSIR Drivers – Pressures – State – Impact – Response

Eionet EEA European network of 39 Member Countries

Copernicus paradigm shift in data availability

large amounts fo data how to stay policy relevant

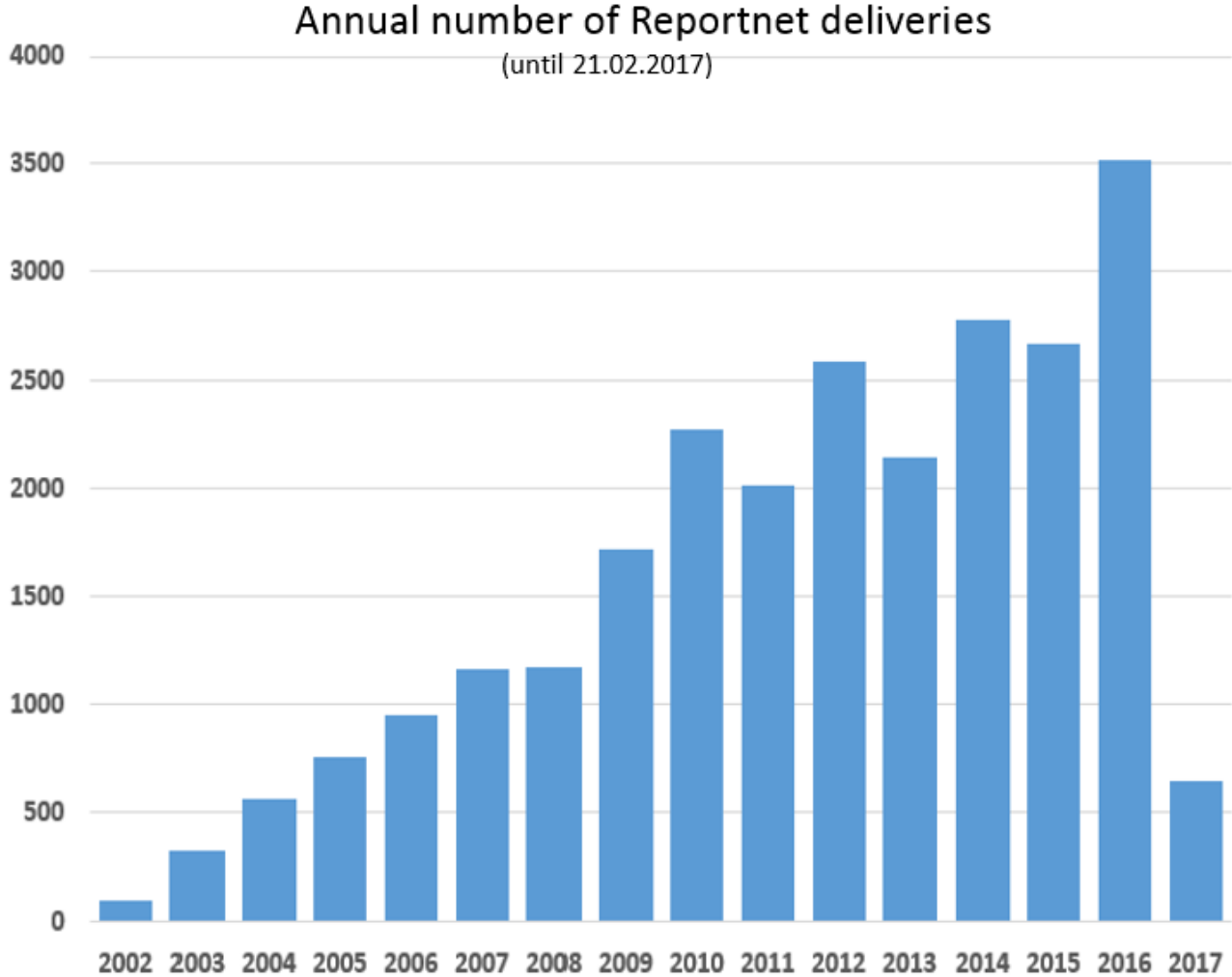
Open data, INSPIRE ... New infrastructures for data

Reportnet systematic data collections

Indicators one bridge from data to knowledge

Sustainable development Goals Todays new policy driver

Growth in reporting environmental data



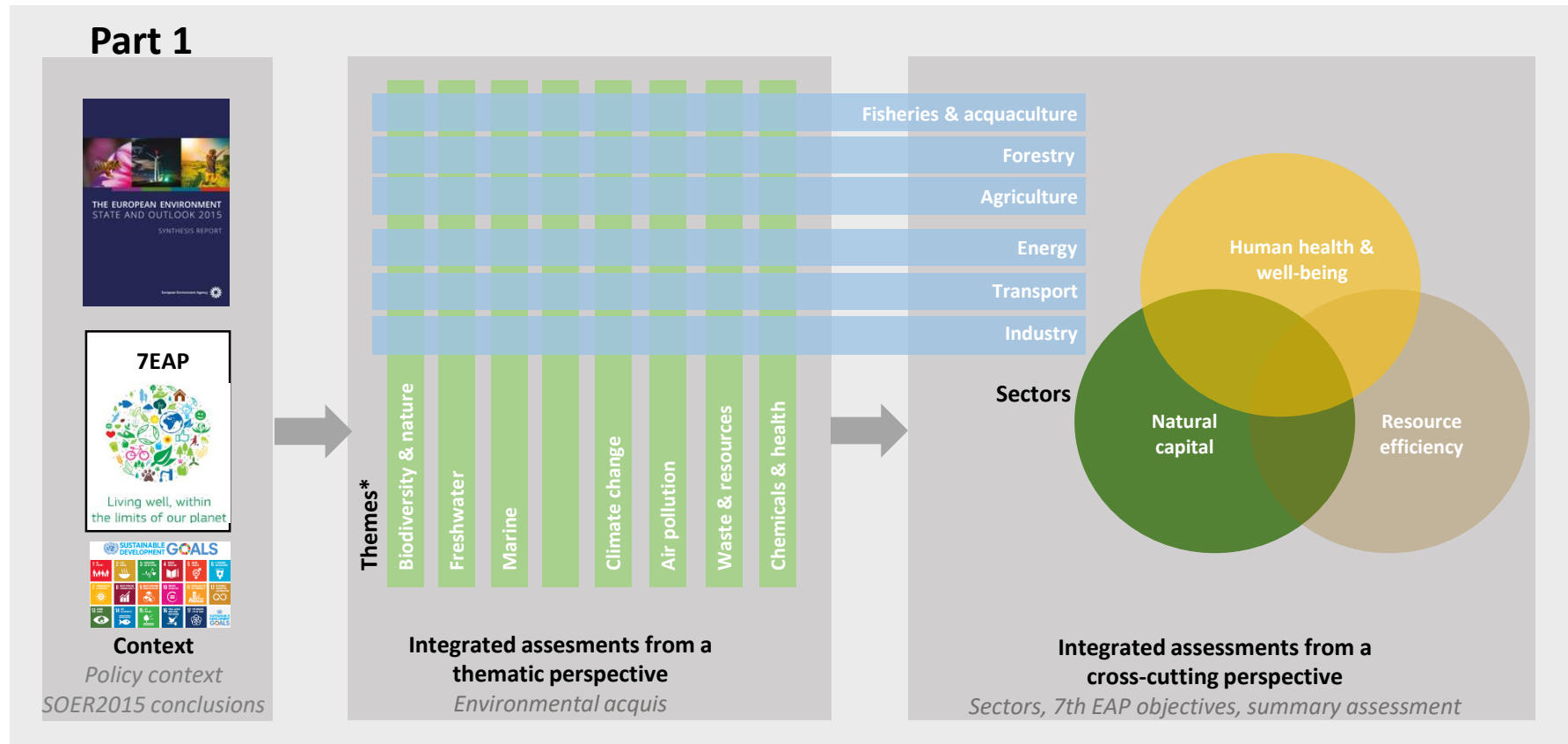
EEA's core set of indicators

Focus / Type	Driving forces	Pressure	State	Impact	Response	Total
A – Descriptive indicators	17	22	19	34	7	99
B – Performance indicators	1	5	3	0	3	12
C – Efficiency indicators	2	5	0	0	3	10
D – Policy effectiveness ind.	1	2	1	0	4	8
E = Total welfare indicators	0	0	0	0	0	0
Total	21	34	23	34	17	129

Systemic analysis further enhanced in SOER 2020

Broaden the base of stakeholder and partners

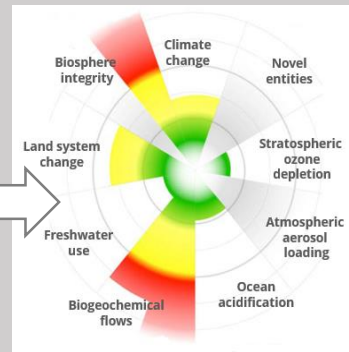
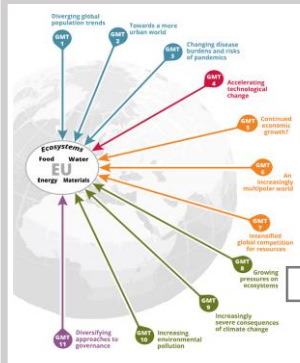
Side story: Assessment logic across SOER 2020 Part 1 and Part 2



* Alternative option: replace Land & soil with two themes: agri-ecosystems, and forest-ecosystems

Side story: Assessment logic across SOER 2020 Part 1 and Part 2

Part 2



Context: Europe's sustainability goals and long-term challenges e.g.

7EAP, SDGs
Global megatrends
Planetary boundaries

Food system
Energy system
Mobility system
Housing system

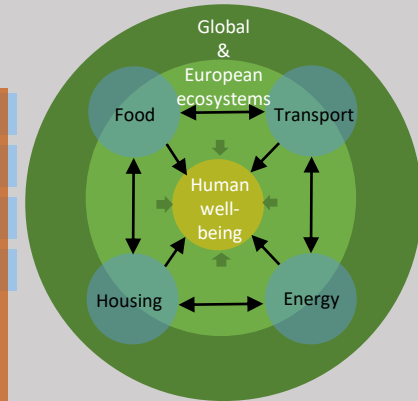
Integrated assessment of priority production-consumption systems

Resource flows and impacts
Actors and economic dimensions

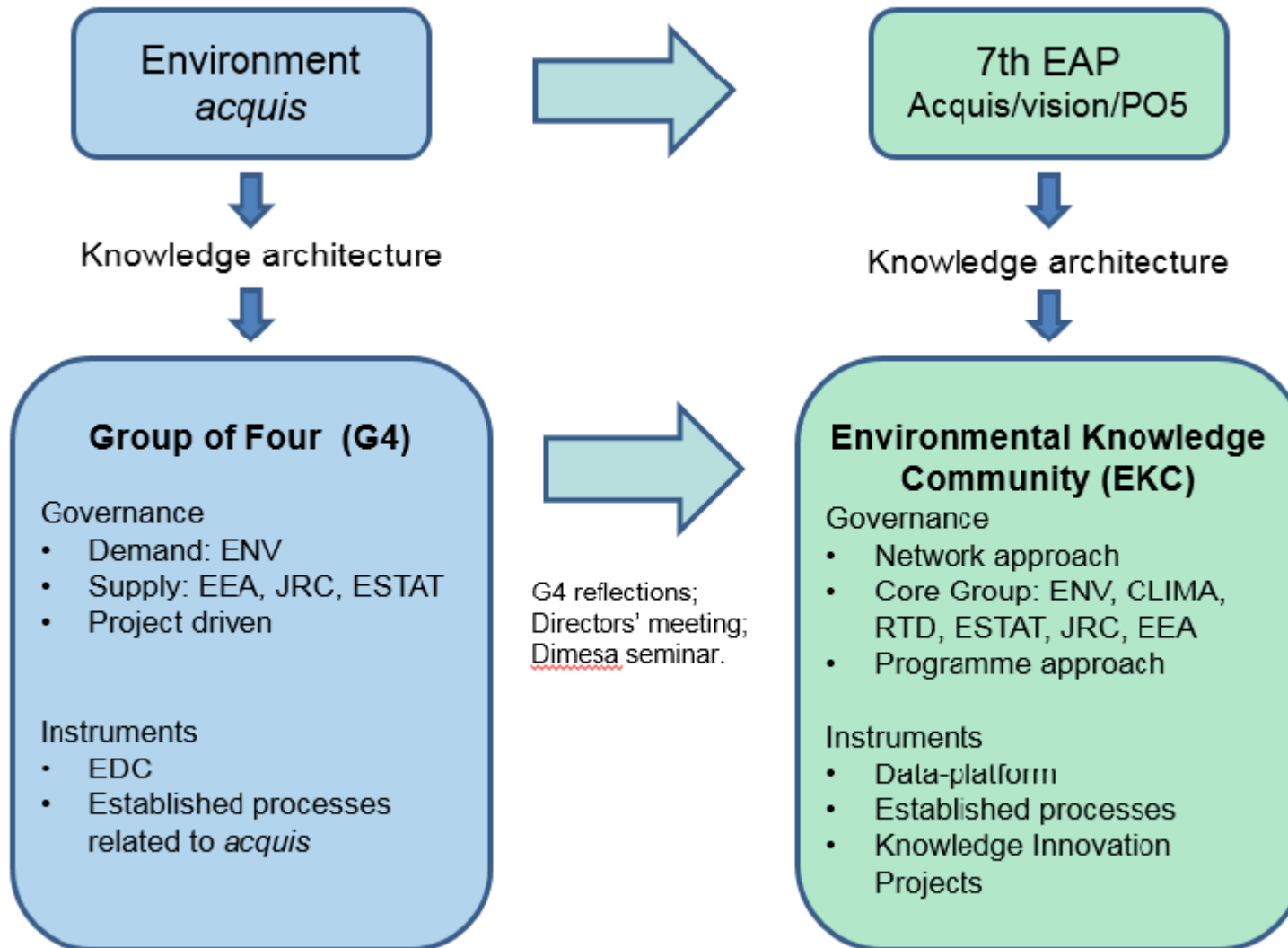
Fiscal
Finance

Integrated assessment from a cross-cutting systems perspective

Interactions of systems and GMTs
Resource nexus
Governance/knowledge for transitions



The evolution of the EU institutional structure towards a knowledge approach

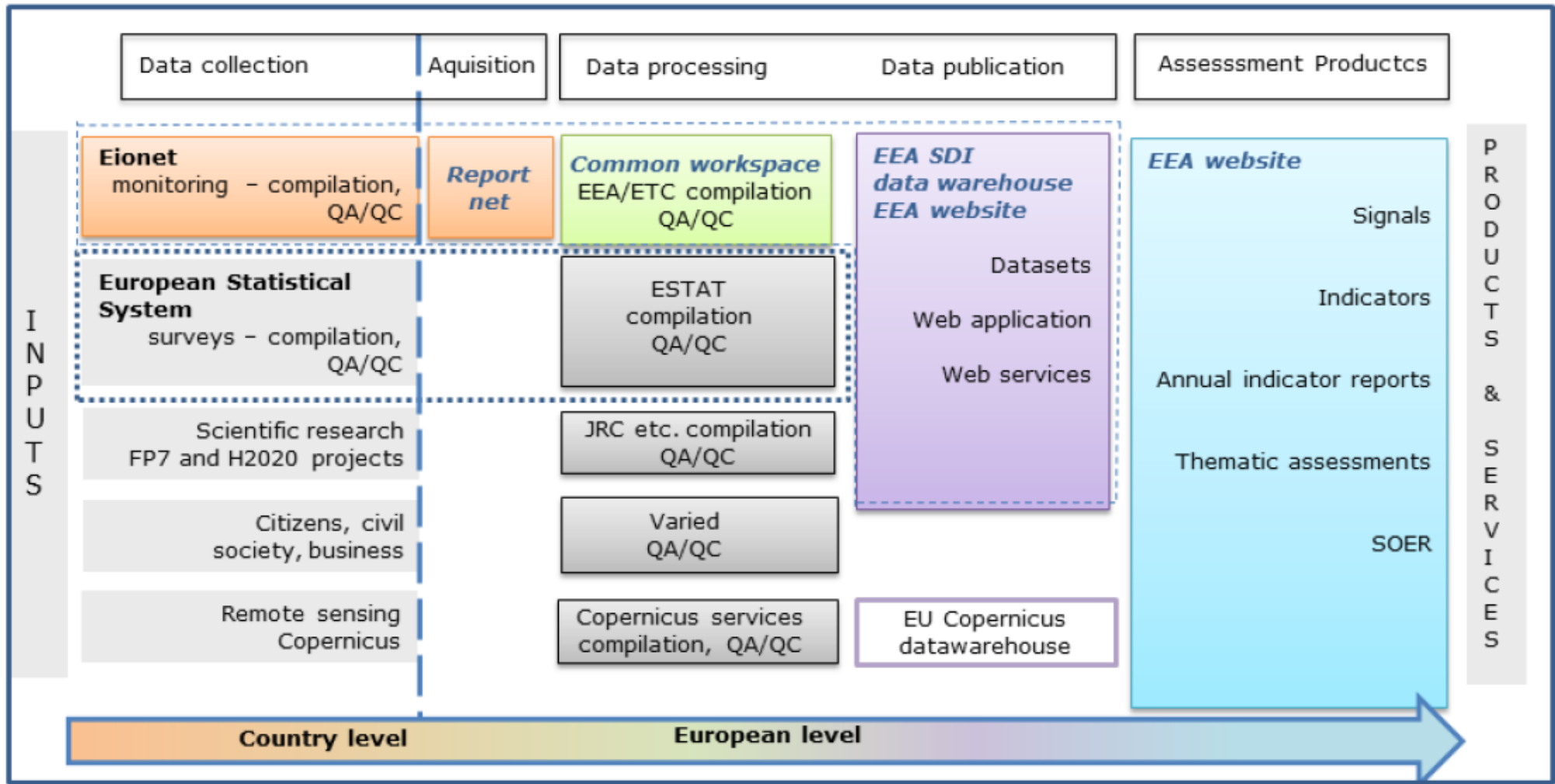


The EEA functional system and beyond

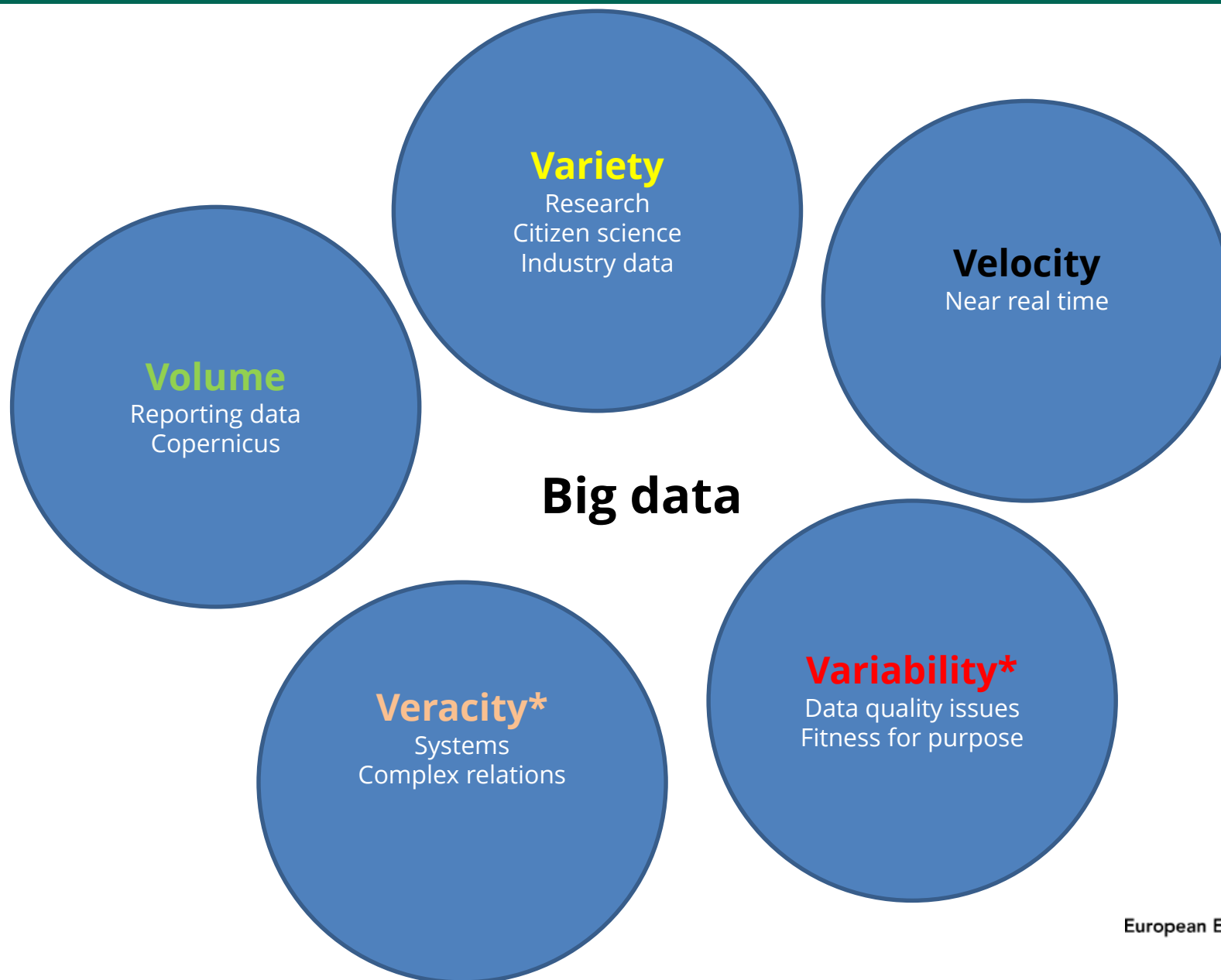
The growing role of „big data“

Changing role of data centres

Highlighted components for management of multi-source data flows in EEA



„Big data“ and EEA



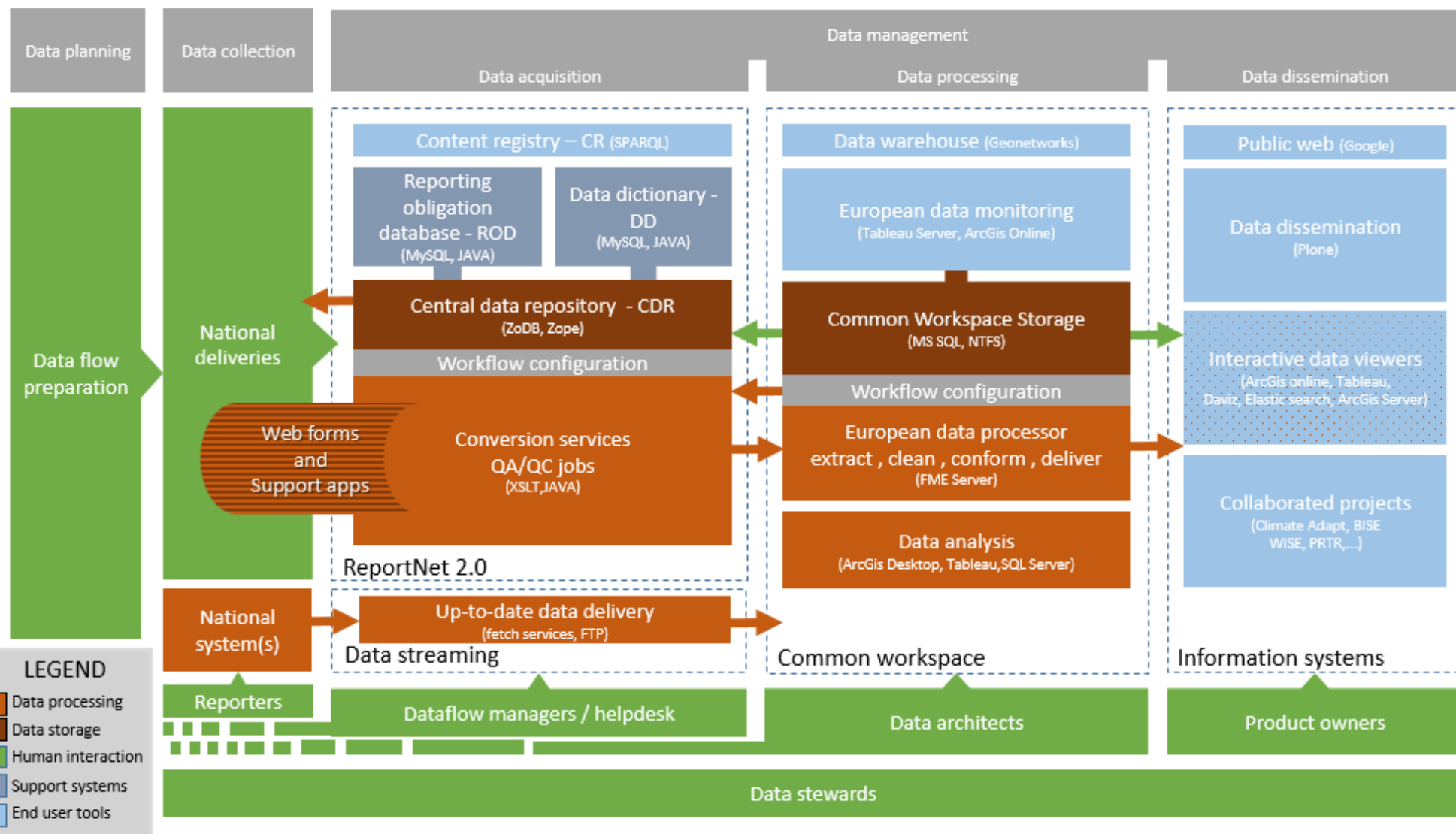
A flexible and integrated system of software components

Software as a service

Cloud storage and processing

The ICT security challenge

Tools used in the EEA management of reported data



Summary of key trends and responses

Significant data evolution

More systematic analysis and key integrative projects

Deeper integration between EU level information systems

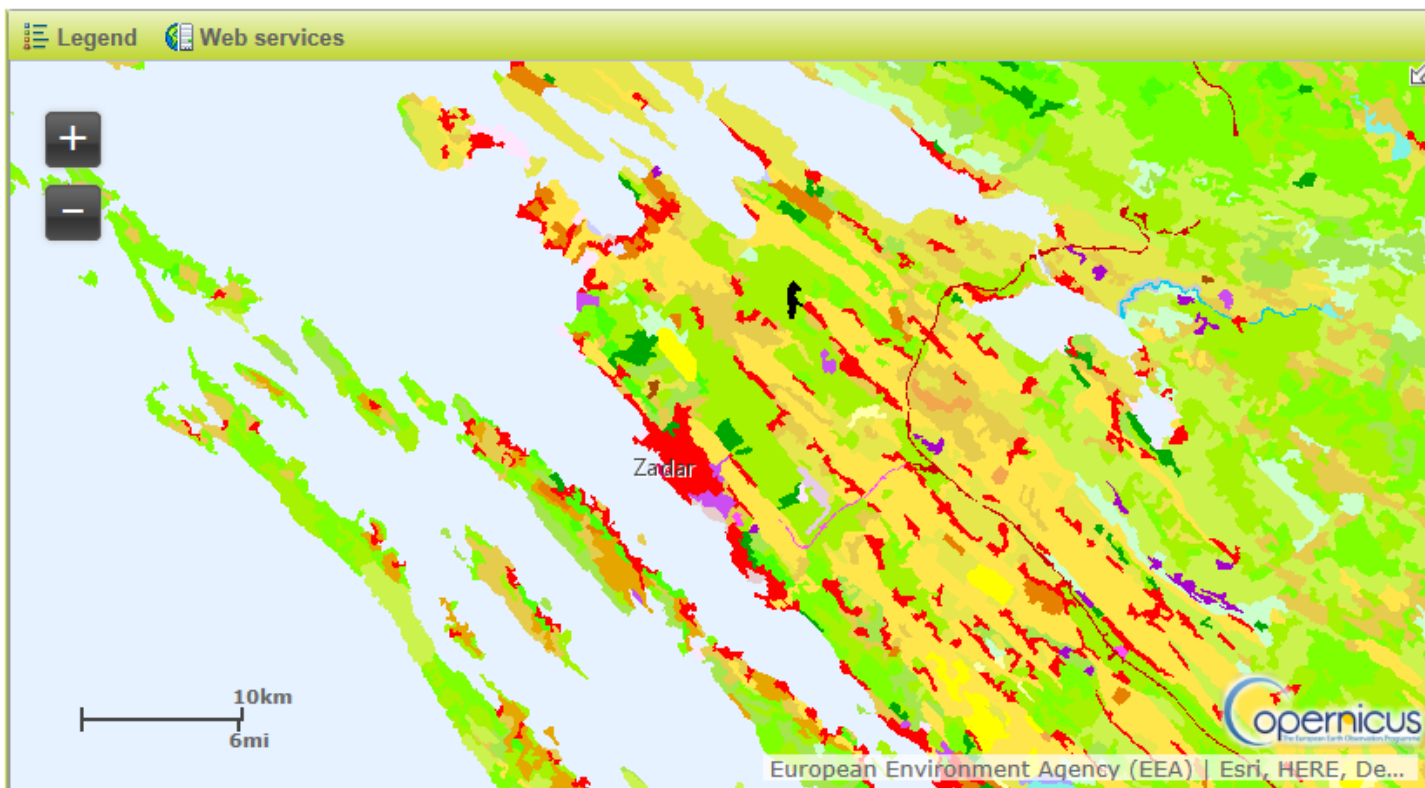
Stronger emphasis on data management (at EEA)

More modular software solutions (at EEA)

CLC 2012

Print

Map View Metadata Download



Thank You and Enjoy Zadar!

for further questions: stefan.jensen@eea.europa.eu