Directorate Sustainable Resources

JRC info Day in Slovenia Ljubljana – 20 October 2025

Alessandra Zampieri - Director



Our mission

"Our science, situated at the crossroads of the environment, economy and society, coupled with scientific networks across the EU and beyond, informs policies to ensure present and future generations enjoy a sustainable planet."







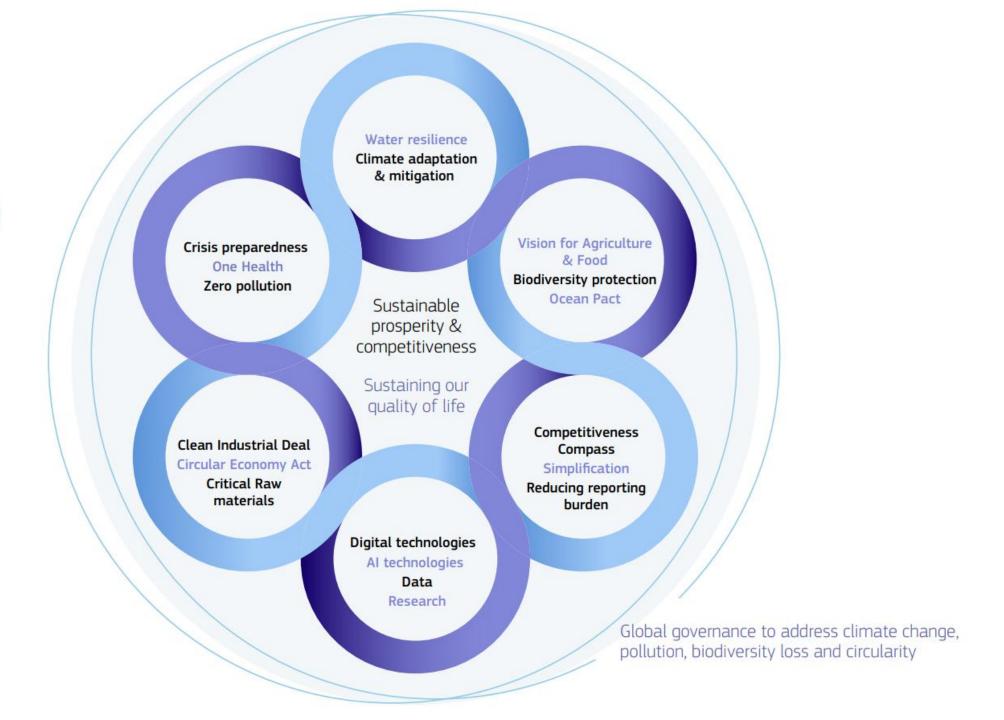




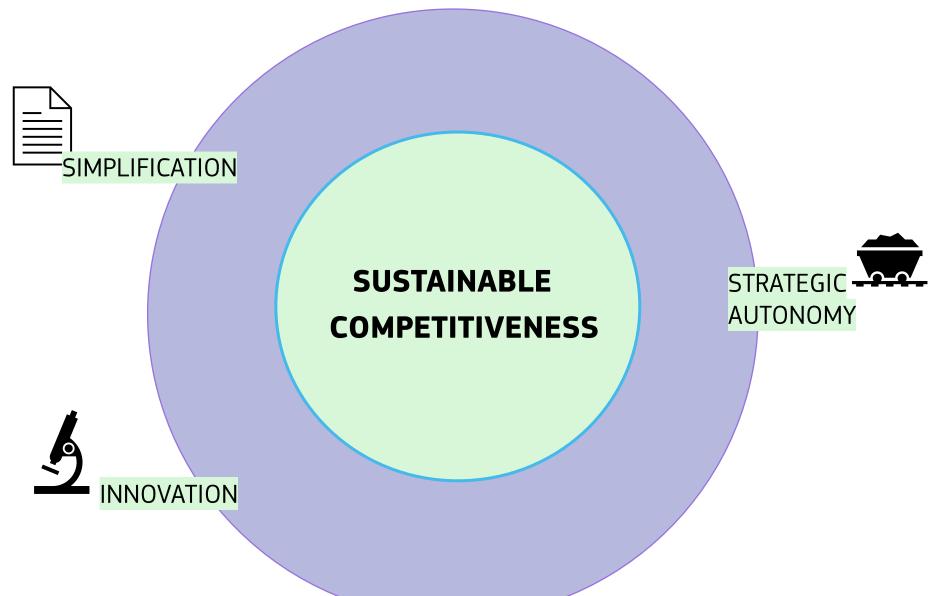




EC political guidelines 2024-2029and focus
areas of **Dir D**



Clean Transition





Nature and long-term prosperity



Nature and natural resources



Production process



Pressures and externalities



Need for sustainability



Long-term prosperity



Nature's impact on economic resilience



Biodiversity loss and ecosystem degradation pose substantial risks to the global economy.



Over half the world's total GDP depends moderately or highly on nature.

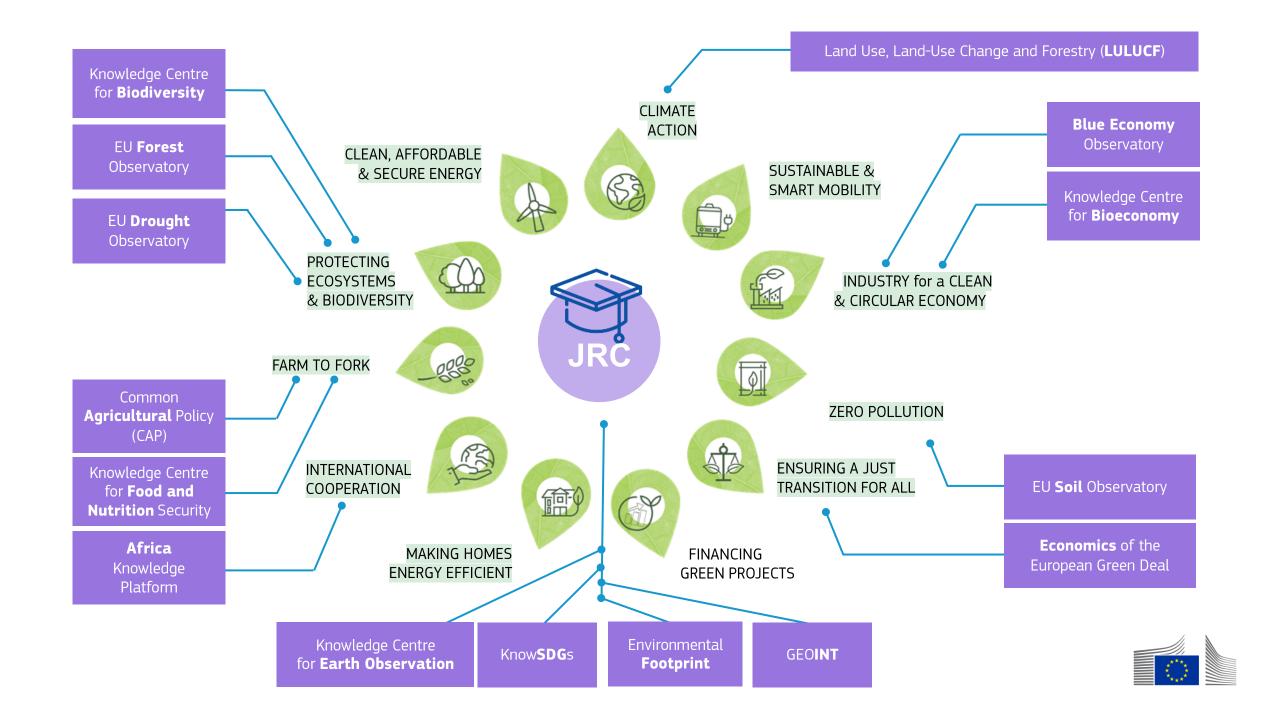


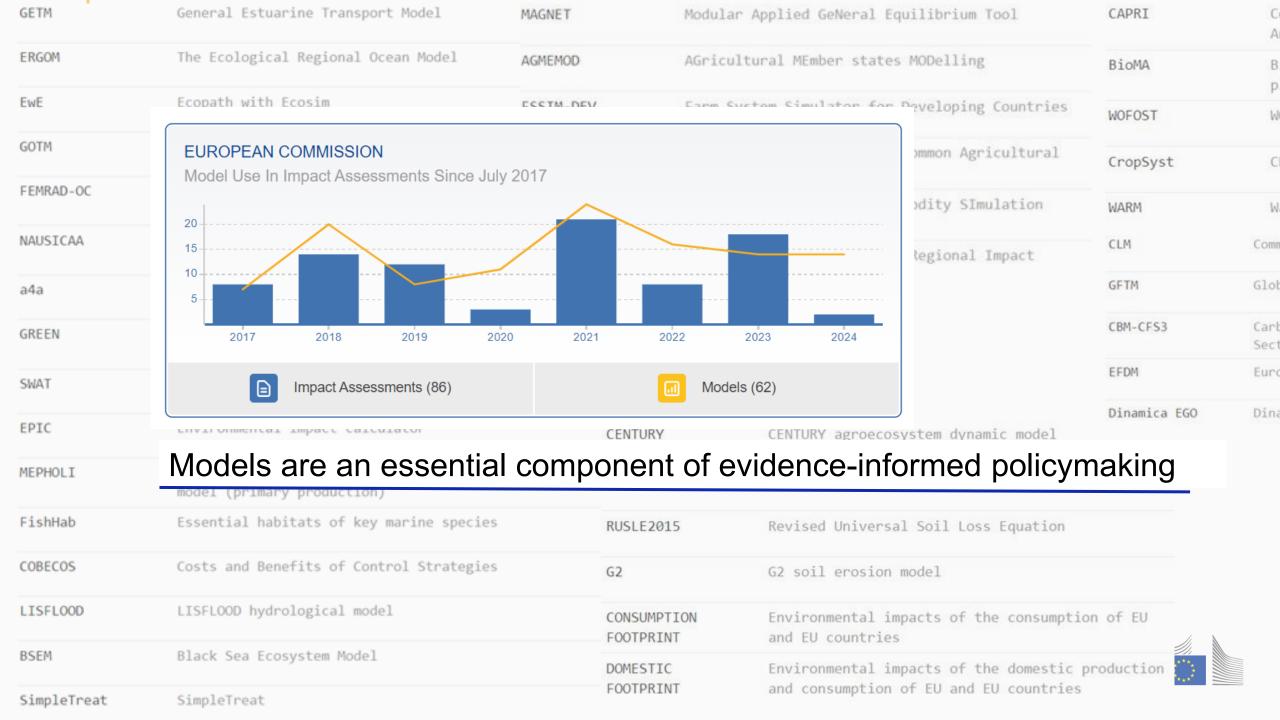
19 out of 23 economic sectors in the EU have substantial nature dependencies for at least 40% of gross value added.

75% of EU corporate loans are granted to companies that heavily rely on nature, which is a risk to the financial sector.

Every €1 invested in nature generates €4-38 in socioeconomic benefits, such as carbon sequestration and pollination.







Nature credits, depollution, metrics beyond GDP

ZEBRA



Vision for Food and Agriculture Sustainability benchmarking

TSFS



Clean industrial deal & valorisation of natural resources

SUMAPRO



Integrated land use models, carbon farming

CLIMATE NEUTRALITY



Balancing the green agenda and competitiveness & fairness

GREEN TRANS



Al & data interoperability in environmental and food policies

AIDA



Solutions for climate adaption and water resilience

BLUECARE



Reporting burden and EO uptake in policies

EARTH INTELLIGENCE



Bathing Water Directive Integrated
Nutrient
Management
Nitrates
Directive

Urban Wastewater Treat. Directive

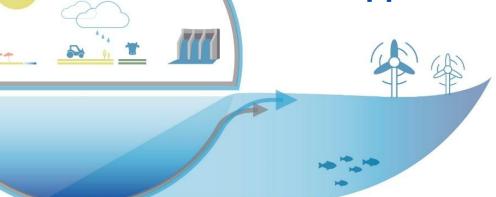
Drinking WaterDirective

Water ReuseRegulation

Copernicus



JRC: support from source to sea



Floods Directive

Water Framework Directive

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Marine Strategy Framework Directive

Common Fisheries Policy Sustainable Blue Economy

The EU Water Academy

Enhancing Water Resilience: public-private partnerships, capacity building, innovation.

Key Areas of Focus: wastewater treatment, water reuse, applying innovative approaches like "Lab to Fab" transitions and living labs.

Partnership and Collaboration: a collaborative effort, coordinated by the JRC, in partnership with Commission DGs, member state authorities, and the European water sector.

Innovative Initiatives: Wastewater Surveillance Academy for Health and the Water Reuse Risk Management Community of Practice.

Next events: Water Resilience Forum, Brussels, 8 December 2025 – Formal high-level launch in 2026 under Cyprus Presidency.

Survey:

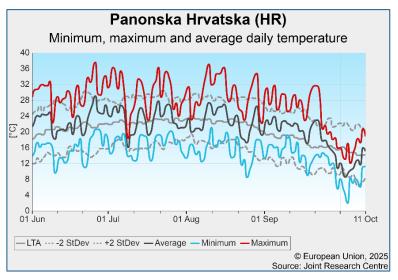
EUSurvey - Survey

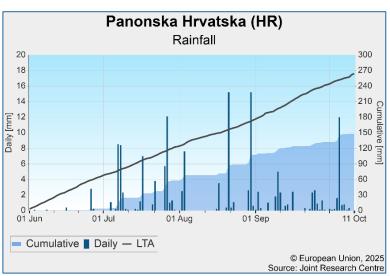




JRC MARS Bulletin, Croatia, September 2025

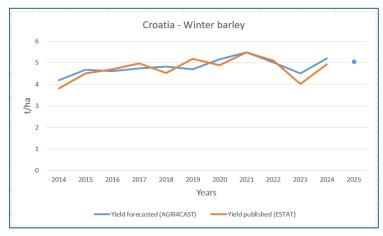
HR





Сгор		A	rea (x 1000 h	a)								
	Avg 5yrs	2024	2025	%25/5yrs	%25/24	Avg 5yrs	2024	MARS 2025 forecasts	%25/5yrs	%25/24	Avg 5yrs	
Luboot	152	127	1.17	1	. 7	5. 7 7	5.05	5.00	. 1	. 2	001	П

	711-52 (X 1555 114)					11012 (2112)									
Crop	Avg 5yrs	2024	2025	%25/5yrs	%25/24	Avg 5yrs	2024	MARS 2025 forecasts	%25/5yrs	%25/24	Avg 5yrs	2024	2025	%25/5yrs	%25/24
Total wheat	153	137	147	-4	+7	5.77	5.85	5.99	+ 4	+ 2	881	800	879	-0	+ 10
Soft wheat	153	137	147	-4	+7	5.77	5.85	5.99	+ 4	+ 2	881	800	879	-0	+ 10
Durum wheat	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total barley	56	52	57	+ 2	+ 9	4.85	4.93	5.02	+ 4	+ 2	272	257	286	+ 5	+ 11
Winter barley	56	52	57	+ 2	+ 9	4.85	4.93	5.02	+ 4	+ 2	272	257	286	+ 5	+ 11
Spring barley	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Grain maize	277	272	274	-1	+ 1	7.51	7.69	7.10	-5	-8	2 080	2 093	1 946	-6	-7
Rye	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Triticale	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Rape and turnip rape	25	18	18	- 29	+ 1	2.79	2.96	2.90	+ 4	-2	71	53	52	– 27	– 1
Potatoes	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Sugar beet	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Sunflower	50	61	67	+ 33	+ 10	2.92	2.97	2.77	-5	-7	147	180	185	+ 26	+ 3
Soybeans	88	103	96	+ 8	-6	2.61	2.48	2.49	-5	+ 0	231	254	239	+ 3	-6
Field peas	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Field beans	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Rice	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Green maize	27	25	25	-9	-1	34.8	35.6	33.1	- 5	-7	952	902	828	– 13	-8





CleanTransition and strategic autonomy - Critical Raw Materials Act



Sustainable Development Goals, Principles, Partnerships, Sustainable Management, Policies, Knowledge Systems



Circular Economy and Value Chains
Supply risk analyses, Recycling and Ecodesign



Environmental Performance Environmental Assessments and Footprints, Life Cycle Assessments



Social dimension Life cycle social assessments, Responsible Sourcing, Due Diligence, Conflicts

JRC Support to CRM Act implementation so far:





Metals / Minerals
Intelligence / Knowledge

Supply:

Analyses / modelling / foresight

Demand:

Value Chain Modelling / Analysis / Foresight on e.g. material needs

Extraction, processed materials, etc.

Environmental, Social, Economic

Circularity

5 Sectors & 15 Technologies value chain analyses: Renewable Energy, E-mobility, Batteries, Electronics/Electrical, Semi-Conductors, ...

Thank you



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