



Platform of bioeconomy ERA-NET Actions

PLATFORM Annual Event 2017

Workshop Alignment in ERA-Net/ ERA-NET Cofunds



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Alignment, a definition provided by ERA-Learn:

Alignment is the strategic approach undertaken by Member States to modify their national research programmes, priorities or activities as a consequence of the adoption of joint research priorities in the context of Joint Programming, with a view to improve the efficiency of investment in research at the level of Member States and the European Research Area.



Alignment can take place on many levels and via different actions:

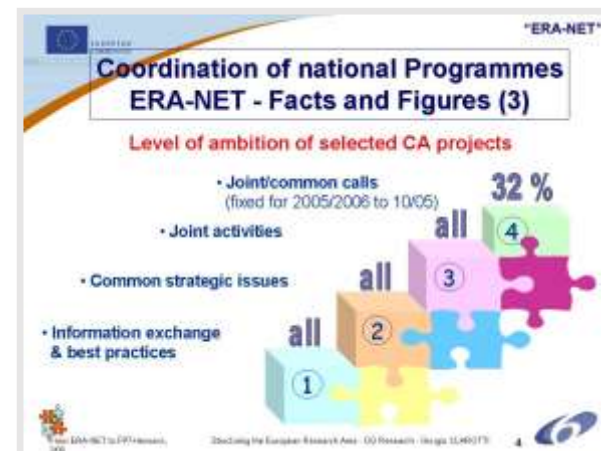
A typology provided by ERA-Learn distinguishes approx. 30 alignment activities, clustered in 7 thematic blocs:

- Joint Research Strategy
- Joint Research Planning
- **Joint Research Funding**
- Joint Research Implementation
- Joint ex-post Evaluation of results and natl. Reporting
- Training
- Joint Research infrastructure and data
- Joint dissemination and uptake



ERA-Net and ERA-Net Cofund are designed as instruments for Alignment in research programming:

- › 1 - Systematic exchange of information & best practices
- › 2 - Common strategic issues
- › 3 - Development of joint activities
- › 4 - Implementation of transnational research activities





Analysis of the contribution of ERA-Net in Bioeconomy to Alignment of research programs:

Assessment of alignment activities via the DoWs of

- 13 ERA-Net (FP-6 & FP 7)
- 2 ERA-Net Plus (FP6 & FP7)
- 1 Self sustained initiative originating from an FP-6 ERA-Net
- **12 out of 15 ERA-Net Cofunds in Bioeconomy under Horizon 2020**



Analysis of the contribution of ERA-Net in Bioeconomy to Alignment of research programs:

Framework program 6		
Initiative	Topic	Instrument
ERA-IB	Industrial Biotechnology	ERA-Net
ERASysBio	Systems Biology	ERA-Net
ERASysBioPlus	Systems Biology	ERA-Net Plus
Eurotrans-Bio	SMEs in Biotech	ERA-Net
Pathogenomics	Genomics of pathogen. Microbes	ERA-Net
Plant Genomics	Genomics of Crops	ERA-Net
Framework program 7		
Initiative	Topic	Instrument
EurotransBio-Pro	SMEs in Biotech	ERA-Net and then self-sustainable
ERA-IB2	Industrial Biotechnology	ERA-Net
ERASysApp	Systems Biology	ERA-Net
ANIHWA	Animal Health & Welfare	ERA-Net
Susfood	Food Production	ERA-Net
ERASynBio	Synthetic biology	ERA-Net
ERA-MBT	Marine biotechnology	ERA-Net
FACCE-ERA-Net Plus	Smart Agriculture	ERA-Net Plus
ERASysBioPlus	Systems Biology	ERA-Net
CoFASP	Fischery et.al.	ERA-Net

ERA-Net cofund under Horizon 2020	
Initiative	Topic
Susfood 2	Food Production
ERACoBioTech	Biotechnology
ERA-GAS	GHG Mitigation
Core Organic	Organic Farming
Surplus	Biomassprod. for Bioeconomy
SusCrop	Crop Production
Forest Value	Forest
Leap Agri	Cooperation with Africa
HDHL-Initimic	Microbiomics in Food, Health & Nutrition
BestF	Demonstrators in Bioenergy
MarTERA	Marine und maritime Technology
ERA4CS	"Climate Services"



(Overview over raw data)

	A	D	E	F	G	H	I	J	K	L	M	N	O
	Initiative	1	2	3	4	5	6	7	8	9	10	11	Additional Activities
		Strategic Research Agenda	Internal Alignment of Procedures as dedicated task	Mapping Exercise	Joint Call	Joint Feeding Program	Joint Training Measures/Events Capacity	Joint Data Management	Alignment in the context of Task transfer / Innovation Management	Joint Communication	Joint activities on international outreach	Joint Data Management	Additional Activities
1													
2													
3													
4	ERA-IB				Yes	Social Calls							
5	ERA3yBio	Yes			Yes	Lowest, Stefan: Harmonized in the call text	Yes	Recommendation				Recommendation	Lowest, Stefan
6	ERA3yBioPlus				Yes				Lowest, Stefan: Network interaction				Network please here
7	EuroBio-Be		Yes	Yes	Yes	Social Calls				Lowest, Stefan: We are dealing with the ECORON and put in that topic there or not much going on			Align to my own initiative of BioData, EuroBio-Be, etc.
8	Potlogonomic				Yes								
9	Plant Genome		Yes		Yes								
10													
11	EuroBio-Be		Yes	Yes	Yes	Social Calls							
12	ERA-IB2				Yes	Social Calls							
13	ERA3yApp	Yes			Yes			Yes				Yes	
14	ANR/A			YES, only animal welfare	Yes	Towards a sustainable structure							
15	Susfood	Yes		Yes, Metaknowledge database	Yes			Yes, Metaknowledge database				Yes, Metaknowledge database	
16	ERA3yBio				Yes					Yes			
17	ERA-MBT	Yes			Yes								
18	FACCE-ERA-MBT	Yes, via FACCE			Yes				Yes				
19	ERA3yBioPlus				Yes								
20	CoFAP	Yes		Yes	Yes		Yes						
21													
22	Susfood 2	Yes, mixed also Document based on SRA from Susfood 1, including implementation plan			Yes	Yes, activities beyond Susfood 2 will be planned				Yes	Yes, outreach as potential collaboration on task level		Joint activities on stakeholder involvement
23	ERA3yBioTus	Strategic Call for advancing bioeconomy			Yes	Yes, a continuous feeding process is ongoing		Yes, via CoeBioBio	Yes, via a BioFab	Yes, via a BioFab	Yes, via a BioFab	Yes, via CoeBioBio	
24	ERA-GAS	Yes		Yes, only GHG mitigation	Yes	Possibilities for a long term perspective will be analyzed			Yes, similar on subsequent of innovative potential	Yes	Cooperation possibilities with international initiatives		
25	Cere Organ				Yes	Yes, enhanced involvement of SMEs				Yes	Network context for international cooperation		
26	Triple	Yes, via FACCE			Yes					Yes	Exchange of information with international initiatives		
27	SusCrop	Yes, as part from FACCE's SRA			Yes					Yes	Mapping of international initiatives and outreach		Lowest, Stefan: Information is in all Call documents, the level of information is higher
28	Forest Value			Mapping of ongoing research	Yes					Yes	Workshop on potential outreach activities with task		
29	Loop-Agri				Yes	Yes, in capacity development and accompanying measures				Yes	Yes, the basic aim of the initiative		
30	MOE-Intimic				Yes	Yes, in a way, at least 3 calls in a row				Yes			
31	BuTF				Yes	Social calls				Yes			Close cooperation with ERA-Net Biosafety
32	MuTERA				Yes	Yes				Yes			
33	ERAFCO	Yes, a 5-year vision and implementation strategy		Mapping of national and international activities, Inventory of EC priorities	Yes, in a call made "in-call" & "in-kind"								Lowest, Stefan: Long at Stefan
34													Evaluation of JPI Climate, Cooperation with other JPIs, Develop further alignment procedures e.g. for call. Program
35													Additional Activities



Alignment activities in Bioeconomy- Coordination actions by topics:

	ERA-Net ERA-Net Plus	ERA-Net Cofund
• Joint Research Strategy	37%	50%
• Joint Research Planning	25%	25%
• Joint Research Funding	100%	(100%)*
• Joint Research Implementation	31%	75%
• Research evaluation and reporting	0%	8%
• Training	12%	0%
• Joint Research infrastructure and data	18%	8%
• Joint dissemination and uptake	6%	(58%)**

*) obligatory in ERA-Net Cofund

***) partially obligatory in ERA-Net Cofund



The obvious result:

	ERA-Net ERA-Net Plus	ERA-Net Cofund
• Joint Research Strategy	37%	50%
• Joint Research Planning	25%	12%
• <u>Joint Research Funding</u>	<u>100%</u>	<u>(100%)*</u>
• Joint Research Implementation	31%	75%
• Research evaluation and reporting	0%	8%
• Training	12%	0%
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• Joint dissemination and uptake	6%	(58%)**

*) obligatory in ERA-Net Cofund

**) partially obligatory in ERA-Net Cofund



ALL of our ERA-Net contribute to the alignment of research via funding !!!



Further results I:

	ERA-Net ERA-Net Plus	ERA-Net Cofund
• Joint Research Strategy	37%	50%
• Joint Research Planning	25%	25%
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9 out of 12 „Cofunds“ intend to establish sustainable structures e.g. ongoing programme, serial calls etc.



Further results II:

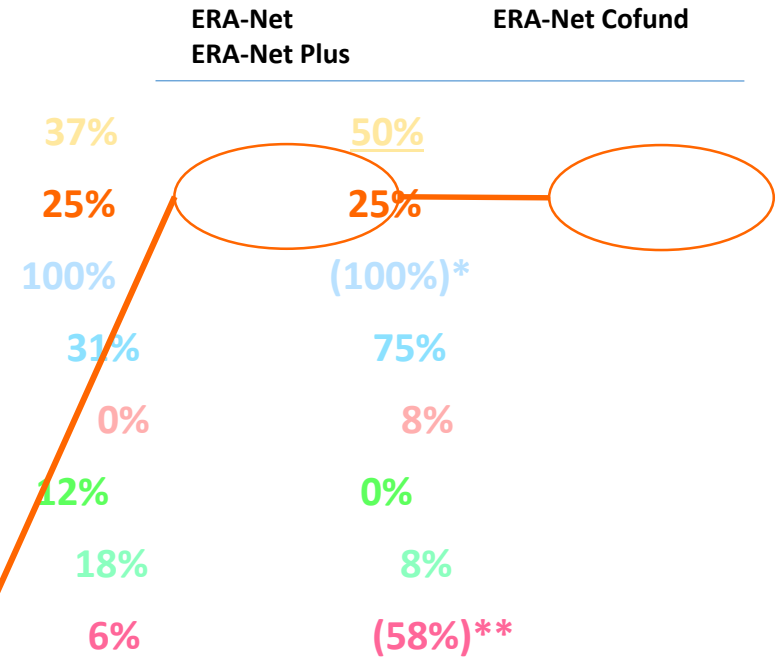
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Half of the „Cofunds“ work along a strategic document
(all Cofunds in the FACCE context contribute to FACCE’s
SRA)



Further results I:

- Joint Research Strategy
- Joint Research Planning
- Joint Research Funding
- Joint Research Implementation
- Research evaluation and reporting
- Training
- Joint Research infrastructure and data
- Joint dissemination and uptake



Mapping is an ongoing issue from the very beginning



Further results II:

	ERA-Net ERA-Net Plus	ERA-Net Cofund
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Only ERASysBio and CoFASP ever made training activities



Individual alignment activities:

	ERA-Net ERA-Net Plus	ERA-Net Cofund
• Joint Research Strategy	37%	<u>50%</u>
• Joint Research Planning	25%	25%
• Joint Research Funding	100%	(100%)*
• Joint Research Implementation	31%	75%
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ERA4CS supports the evaluation of JPI Climate

ERACoBiotech implements an elaborated system for data management



...so far so good, but....

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• Joint Research Implementation	31%	75%
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• Joint Research infrastructure and data	18%	8%
• Joint dissemination and uptake	6%	(58%)**

...can we be satisfied with that?

...is that sufficient?

 A try to have a closer look:



ERA-Learn's typology lists 30 individual alignment activities*:

Joint Research Planning

- Joint Mapping
- Joint stakeholder consultation
- Joint Foresight

Joint Research Funding

- Synchronisation of national calls
- Joint calls
- Joint co-funded calls
- Serial Joint calls
- Art 185
- FPA

Joint Research Implementation

- Joint Research programme
- (Thematic)Network of researchers
- Network of Research providers
- Research Alliance of research providing organisations
- Network of excellence, Knowledge Hub
- Joint Research Center
- Coordination of methods and technologies
- Standardisation of methods and technologies

Joint Research Strategy

- Adoption of common research priorities
- Adoption of common implementation plan
- Co-operation between JPIs
- Co-operation between JPIs and other initiatives

Joint Research infrastructure and data

- Joint use of natl./europ. Infrastructure
- Joint infrastructure facility
- Open access issues

Joint dissemination and uptake

- Joint dissemination
- Joint industry outreach

Research evaluation and reporting.

- Joint evaluation of initiatives (ex post)
- Joint reporting

Joint Training



7 out of 29 activities are probably not relevant for ERA-Net/ -Cofunds:

Joint Research Planning

- Joint Mapping
- Joint stakeholder consultation
- Joint Foresight

Joint Research Funding

- Synchronisation of national calls
- Joint calls
- Joint co-funded calls
- Serial Joint calls
- Art 185
- FPA

Joint Research Implementation

- Joint Research programme
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Joint Research infrastructure and data

- Joint use of natl./europ. Infrastructure
- Joint infrastructure facility
- Open access issues

Joint dissemination and uptake

- Joint dissemination
- Joint industry outreach

Research evaluation and reporting.

- Joint evaluation of initiatives (ex post)
- Joint reporting

• Joint Training



From the remaining 22 potential activities (only) 10 occur in the cofunds in Bio-economy:

Joint Research Planning

- **Joint Mapping**
- Joint stakeholder consultation
- Joint Foresight

Joint Research Funding

- Synchronisation of national calls
- **Joint calls**
- **Joint co-funded calls**
- **Serial Joint calls**
- Art 185
- FPA

Joint Research Implementation

- **Joint Research programme**
- (Thematic)Network of researchers
- Network of Research providers
- Research Alliance of research providing organisations
- Network of excellence, Knowledge Hub
- Joint Research Center
- Coordination of methods and technologies
- Standardisation of methods and technologies

Joint Research Strategy

- **Adoption of common research priorities**
- **Adoption of common implementation plan**
- Co-operation between JPIs
- Co-operation between JPIs and other initiatives

Joint Research infrastructure and data

- Joint use of natl./europ. Infrastructure
- Joint infrastructure facility
- **Open acces issues**

Joint dissemination and uptake

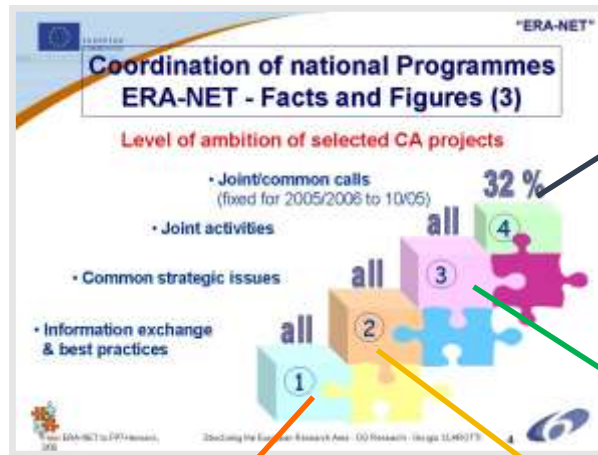
- **Joint dissemination**
- **Joint industry outreach**

Research evaluation and reporting.

- Joint evaluation of initiatives (ex post)
- Joint reporting
- Joint Training



Most of them (8) support the core-business of the „old“ ERA-Net scheme



Joint Research Funding

- Synchronisation of national calls
- Joint calls
- Joint co-funded calls
- Serial Joint calls
- Art 185
- FPA
- Joint Research programme

Joint Research infrastructure and data

- Joint use of natl./europ. Infrastructure
- Joint infrastructure facility
- Open acces issues

Joint Research Strategy

- Adoption of common research priorities
- Adoption of common implementation plan
- Co-operation between JPIs
- Co-operation between JPIs and other initiatives

Joint Research Planning

- Joint Mapping
- Joint stakeholder consultation
- Joint Foresight

Joint dissemination and uptake

- Joint dissemination
- Joint industry outreach

Dedicated and tailormade



Routine and everyday business



What about the 12 so far untested potential actions to strengthen alignment via ERA-Net /ERA-Net Cofund ??

Joint Research Planning

- **Joint stakeholder consultation**

Joint Research Funding

- **Synchronisation of national calls**

Joint Research Implementation

- **(Thematic) Network of researchers**
- **Network of Research providers**
- **Research Alliance of research providing organisations**
- **Network of excellence, Knowledge Hub**
- **Coordination of methods and technologies**
- **Standardisation of methods and technologies**

Joint Research infrastructure and data

- **Joint use of natl./europ. Infrastructure**

Research evaluation and reporting.

- **Joint evaluation of initiatives (ex post)**
- **Joint reporting**

- **Joint Training**



Considerations:

Joint Research Planning

- Joint stakeholder consultation

Joint Research Funding

- Synchronisation of national calls

Joint Research Implementation

- (Thematic) Network of researchers
- Network of Research providers
- Research Alliance of research providing organisations
- Network of excellence, Knowledge Hub
- Coordination of methods and technologies
- Standardisation of methods and technologies

Joint Research infrastructure and data

- Joint use of natl./europ. Infrastructure
- Joint infrastrucure facility

Research evaluation and reporting.

- Joint evaluation of initiatives (ex post)
- Joint reporting

Joint Training

Network funding on the level of research providers have not yet been implemented by ERA-Net so far

BUT,

FACCE-JPI made excellent experiences with its Knowledge-Hub !

(might even be included in the co-funded call)



Considerations:

Joint Research Planning

- Joint stakeholder consultation

Joint Research Funding

- Synchronisation of national calls

Joint Research Implementation

- (Thematic) Network of researchers
- Network of Research providers
- Research Alliance of research providing organisations
- Network of excellence, Knowledge Hub
- **Coordination of methods and technologies**
- **Standardisation of methods and technologies**



Joint Research infrastructure and data

- Joint use of natl./europ. Infrastructure
- Joint infrastructure facility

Research evaluation and reporting.

- Joint evaluation of initiatives (ex post)
- Joint reporting

Joint Training

Questionable:

Most of the partners in our ERA-Net are research funders and simply NOT in charge for standards, regulations etc. in the Bioeconomy!



Considerations:

Joint Research Planning

- Joint stakeholder consultation

Joint Research Funding

- Synchronisation of national calls

Joint Research Implementation

- (Thematic) Network of researchers
- Network of Research providers
- Research Alliance of research providing organisations
- Network of excellence, Knowledge Hub
- Coordination of methods and technologies
- Standardisation of methods and technologies

Joint Research infrastructure and data

- **Joint use of natl./europ. Infrastructure**
- Joint infrastructure facility

Research evaluation and reporting.

- Joint evaluation of initiatives (ex post)
- Joint reporting

Joint Training



With EMPHASIS an ESFRI will occur at the „thematic heart“ of the bio-economy. At least the upcoming Cofunds in the plant sector should carefully look into it.



Considerations:

Joint Research Planning

- Joint stakeholder consultation

Joint Research Funding

- Synchronisation of national calls

Joint Research Implementation

- (Thematic) Network of researchers
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- Coordination of methods and technologies
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Joint Research infrastructure and data

- Joint use of natl./europ. Infrastructure

Research evaluation and reporting.

- **Joint evaluation of initiatives (ex post)**
- Joint reporting



- Joint Training

Monitoring and impact assessment become more and more important. It could become „good practice“ that all successor ERA-Net evaluate the outcome of their respective precursors.

Benefit of ERA-Net Cofunds: All activities of the project are terminated at the end of ist run-time (and can be evaluated)



Considerations:

Joint Research Planning

- Joint stakeholder consultation

Joint Research Funding

- Synchronisation of national calls

Joint Research Implementation

- (Thematic) Network of researchers
- Network of Research providers
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- Network of excellence, Knowledge Hub
- Coordination of methods and technologies
- Standardisation of methods and technologies

Joint Research infrastructure and data

- Joint use of natl./europ. Infrastructure

Research evaluation and reporting.

- Joint evaluation of initiatives (ex post)
- **Joint reporting**

- Joint Training



Questionable:

**National reporting is strictly regulated by law e.g.
often requires the national language.
Harmonisation will here be really difficult
(also helpful for the researchers)**



Considerations:

Joint Research Planning

- Joint stakeholder consultation

Joint Research Funding

- Synchronisation of national calls

Joint Research Implementation

- (Thematic) Network of researchers
- Network of Research providers
- Research Alliance of research providing organisations
- Network of excellence, Knowledge Hub
- Coordination of methods and technologies
- Standardisation of methods and technologies

Joint Research infrastructure and data

- Joint use of natl./europ. Infrastructure

Research evaluation and reporting.

- Joint evaluation of initiatives (ex post)
- Joint reporting

- **Joint Training**

EraSysBio (2005-2008) was one of the very few ERA-

Net offering summerschools to PhD students.

Each was a big succes

(but a great deal of work!)

**Joint Training might only be useful in distinct
thematic areas**



Considerations:

Joint Research Planning

- **Joint stakeholder consultation**

Joint Research Funding

- Synchronisation of national calls

Joint Research Implementation

- (Thematic) Network of researchers
- Network of Research providers
- Research Alliance of research providing organisations
- Network of excellence, Knowledge Hub
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- Standardisation of methods and technologies

Joint Research infrastructure and data

- Joint use of natl./europ. Infrastructure

Research evaluation and reporting.

- Joint evaluation of initiatives (ex post)
- Joint reporting
Joint Training



Probably questionable:

**It would be most sensible to do a stakeholder consultation around the topic finding of the cofunded call,
but this would need to be done before the project starts due to time restrictions in ERA-Net Cofunds**



Generell Considerations

Joint Research Planning

- **Joint stakeholder consultation**

Joint Research Implementation

- **(Thematic) Network of researchers**
- **Network of Research providers**
- **Research Alliance of research providing organisations**
- **Network of excellence, Knowledge Hub**
- **Coordination of methods and technologies**
- **Standardisation of methods and technologies**

Joint Research infrastructure and data

- **Joint use of natl./europ. Infrastructure**

Research evaluation and reporting.

- **Joint evaluation of initiatives (ex post)**
- **Joint reporting**

Joint Training

- **Based on ERA-Learn's typology a number of yet untested alignment activities can be identified.**
- **In generally they can be financed via „Unit-costs“**
- **These actions need to be tested for their potential to improve alignment in Cofunds in Bioeconomy**



Overall Conclusion and recommendation (the latter evt. For the policy brief)

- Since well over a decade ERA-Net, ERA-NetPlus and ERA-Net Cofund are a family of very successful instruments for research programme alignment in Bioeconomy
- Their particular strength (core business) is in alignment of research funding via joint calls and programmes
- A rather focussed set of accompanying measures flank the core activity and support it on a strategic level
- Compared to the overall potential alignment activities in ERA-Net, ERA-NetPlus and ERA-Net Cofund (as represented by ERA-Learn's typology) the initiatives in the bioeconomy still apply a relatively small subset of conceivable alignment actions
- Some of these not yet used alignment measures are looking promising and might add value to the alignment efforts in research programmes in the Bioeconomy.
- It seems appropriate to have these measures in mind and test them on a case by case base for their usefulness in initiatives in Bioeconomy



Thank you for your attention

PLATFORM keeps you informed!

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