

VANGUARD INITIATIVE

New growth through smart specialisation

Steering Committee Smart Specialisation Platform for Industrial Modernisation

Vanguard Bioeconomy Pilot

*Leading Regions
Lombardy and South Holland*

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« Bioeconomy Pilot »

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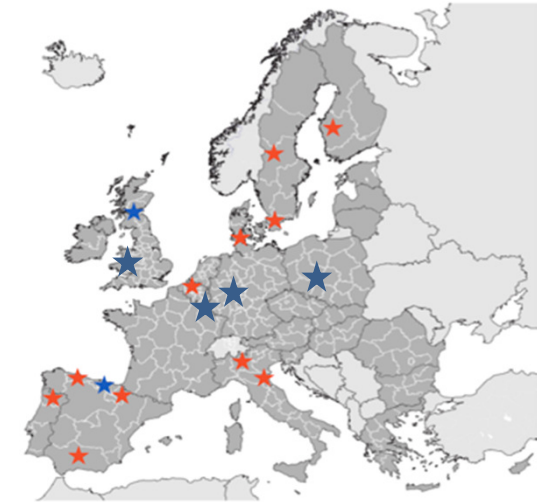
Goal: Interregional cooperation and promotion of investments in new S3 BIO-Based value chains across Europe

Objectives and Partnership

- **Strategy** definition and Efficient **Governance** fo the Pilot
- Developing **value chains** and **demo cases** with **industry engagement**
- Defining **Business and Investment Plans**
- Securing **funding** for demonstration cases (funding mix)

Partner regions: 20 regions (+ 5 observers) from 10 EU countries

Andalusia (ES), Asturias (ES), Baden-Württemberg (DE), Basque Country (ES), East Netherlands (NL), Emilia-Romagna (Ita), Flanders (Bel), Lombardy, Malopolska (Pol), Navarra (ES), Nordrhein-Westfalia (DE), North Netherlands (NL), South Netherlands (NL), Scotland (UK), Skåne (Swe), South Holland, Wales (UK), Tampere (Fin), Värmland (Swe), (Fin), Wallonia (Bel), West Finland/ Ostrobothnia (Fin), Upper Austria (Aus),



Leading Regions:
Lombardy and South Holland

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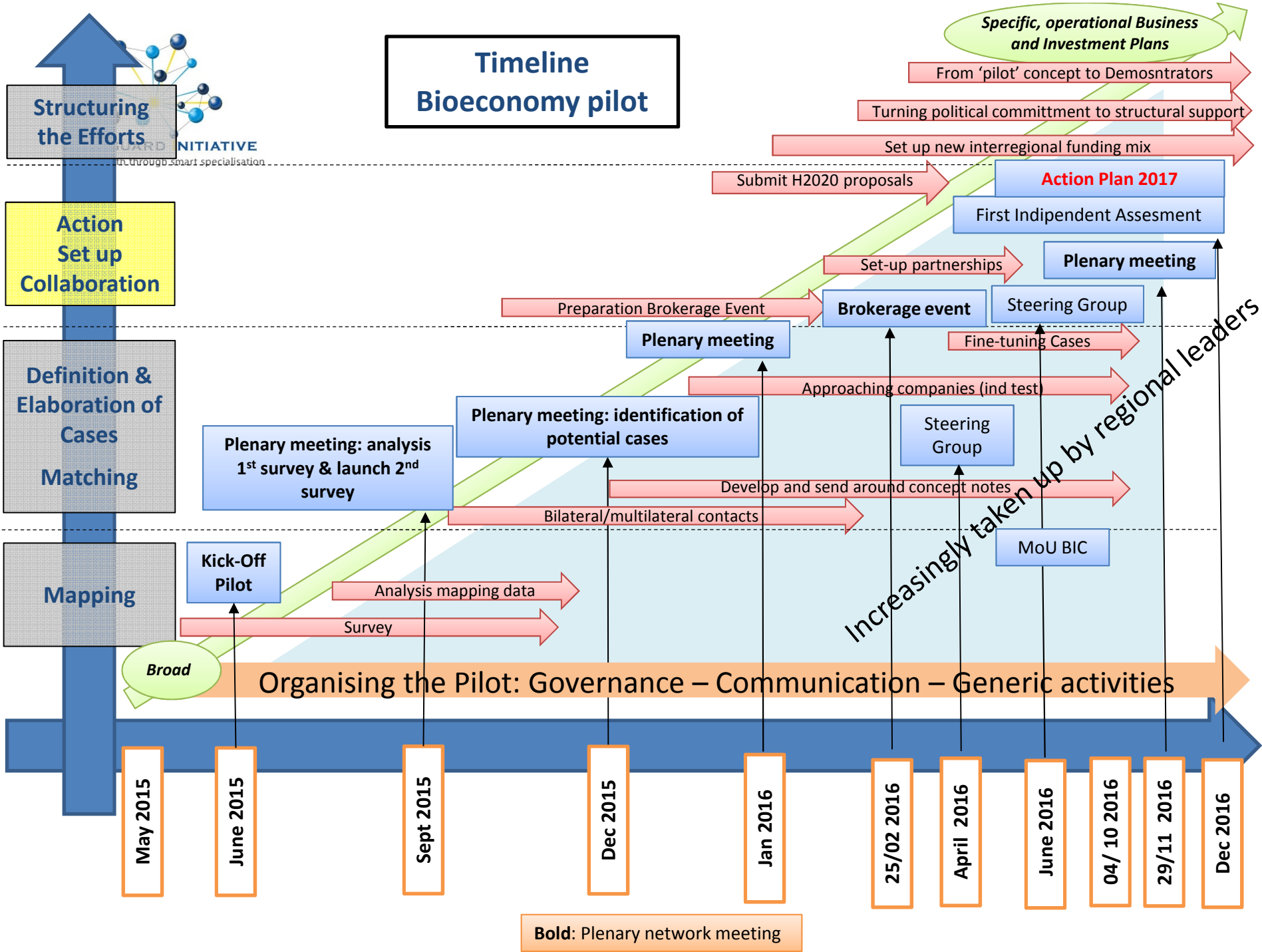
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Where we are with our Demo cases

Demo Case	Leading region & organisation (Steering Group Members)	Status (Learn, Connect, Demonstrate, Upscale)
1-Biobased Aromatics	Flanders – VITO	Connect phase
2-Lignocellulose Refinery	Randstad – Biobased Delta	Learn phase
3-Biogas Beyond Energy	Lombardy – Green Chemistry Association	Learn phase
4-Waste gas valorisation	Flanders - Ghent Bio-energy Valley	Connect phase
5-Bio Aviation Fuel	Värmland – Paper Province	Learn phase
6-Food & Feed from Agrofood Waste	Scotland – Scottish Enterprise	Connect phase
7-Food and Feed ingredients from Algae	Asturias	Only concept note X

X The mapping phase has to be started

Timeline Bioeconomy pilot





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State of Play

Independent Technical Assessment

*“The Bioeconomy Pilot has achieved much, but this is as far as we can go in terms of **TRL** with the current Demo Leaders alone”.*

Future Priorities: Industries

- ❖ Engage for each DEMO case one **“Industrial co-leader”**.
- ❖ Committing Industry to co-lead each of the DEMOs will help to bring the DEMO further (beyond **“technology push”**) adding a stronger **“market pull”** dimension.
- ❖ More insight into the **business plan**, working on investment readiness and attractiveness

Future Priorities: Consolidation

“Several DEMO cases have shown a significant degree of overlaps and potential for joint cross-regional European added value”:

- Lignocellulose, Aromatics, Aviation
- Algae, Food wastes and biogas
- Waste gas

By consolidation:

- ❖ **Highlight the European value chains** => avoid fragmentation
- ❖ **Better use of resources** => Reduce overhead
- ❖ **Increase industrial engagement**
- ❖ **Business Plan and Bankability of investment**

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Support Needed

- ✓ Mapping: Algae case – Expert Support
 - Continuous mapping exercise when new regions join demo cases
- ✓ Support interregional collaboration (Matchmaking activities, projects ...)
- ✓ Better definition of demo cases – Experts feedback and qualified assessment (independent)
- ✓ Value chain composition
- ✓ Increasing industry engagement (synergies with strategic initiatives and platforms)
- ✓ Business Plan Development
- ✓ Identification of the right funding mix (multilevel, public/private)



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Thank you for your attention

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