

SusChem - TECHNOLOGIES INTEGRATION

**The Future of Materials technologies :
SusChem platform as an enabler**

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The role of SusChem - European Technology Platform



- Responding to **global challenges and EU priorities**
- Providing **innovation solutions: sustainable chemical technologies**



- **Enabling a collaborative environment for all stakeholders:**

Industry (incl. SMEs), start-ups, Academia, RTOs & National Technology Platforms



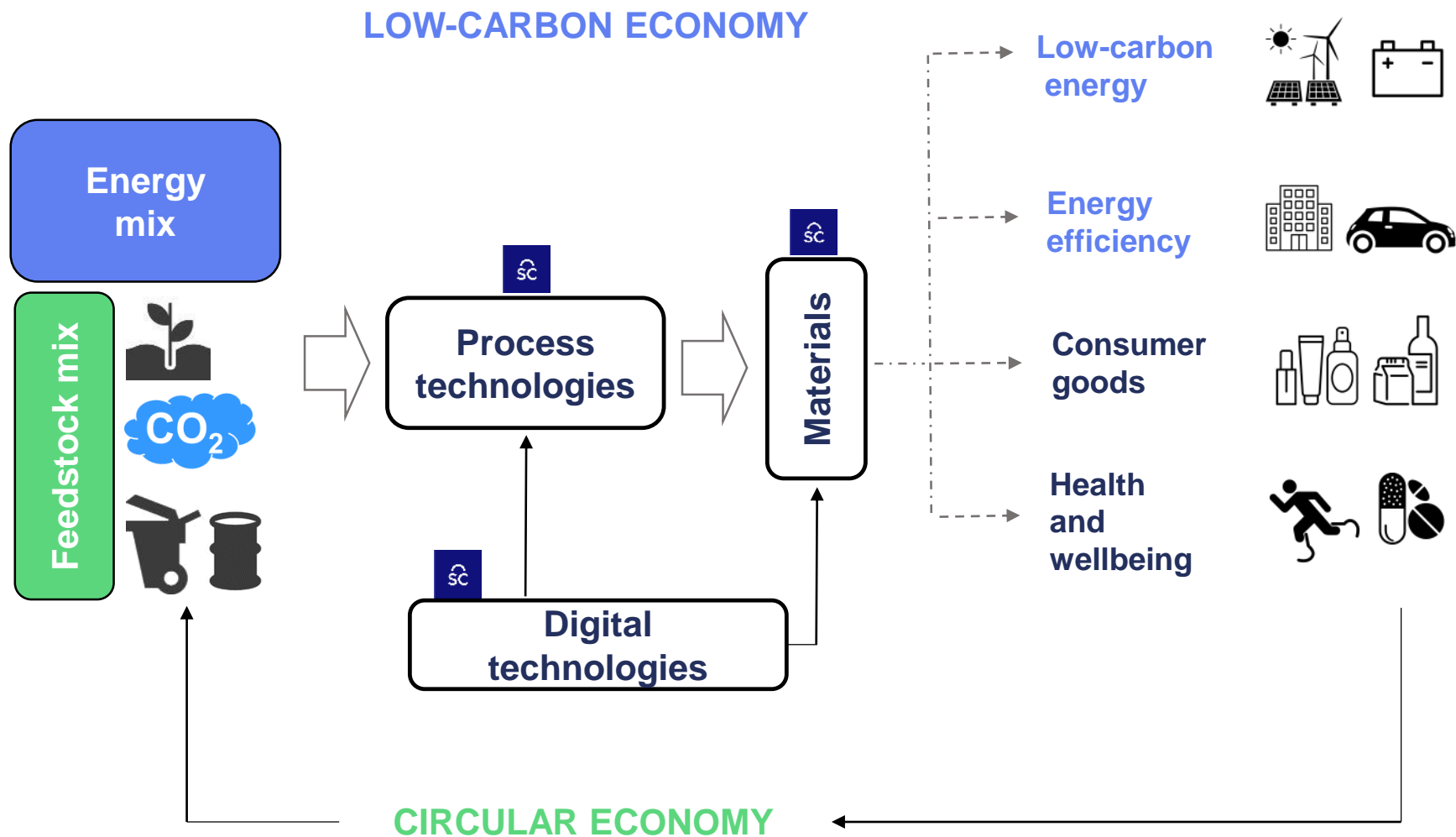
SusChem focus on 3 main Key Enabling Technologies (KETs) :

- **Advanced Materials**
- Advanced Process technologies, including industrial biotechnology
- Digital technologies

To address the following societal challenges:

- Climate action, Environment, Resource Efficiency and Raw Material
- A sustainable and Inclusive Bioeconomy
- Secure, Clean and Efficient Energy
- Health, Demographic Change and Wellbeing
- Smart, Green and Integrated Transport

The role of sustainable chemistry for Europe



SusChem Activities

Promote engagement

SC Stakeholder event

ad hoc working groups

NTPs network

Liaise with EU institutions

Make Publications

- Position papers
- Stakeholder consultations
- H2020 calls

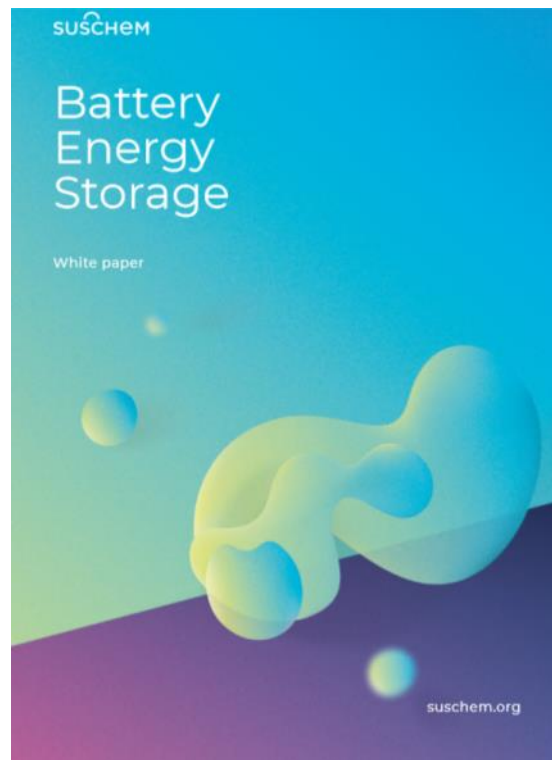
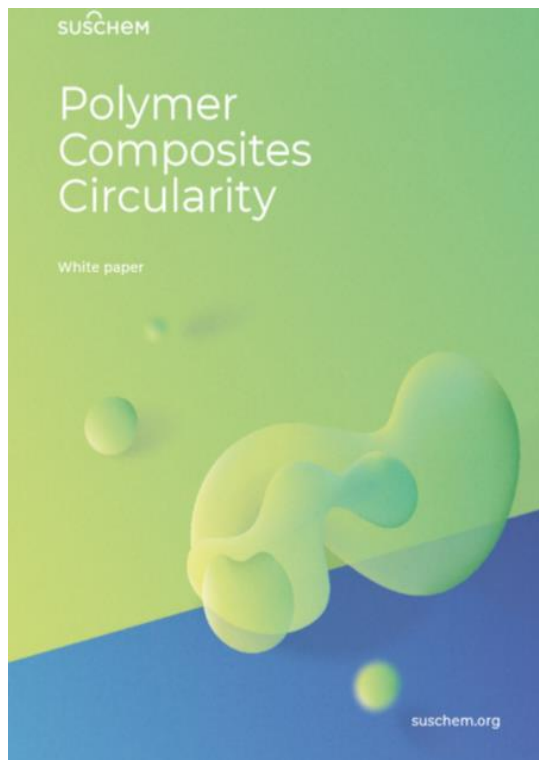


Give support

- SC Brokerage event
- SME workshops

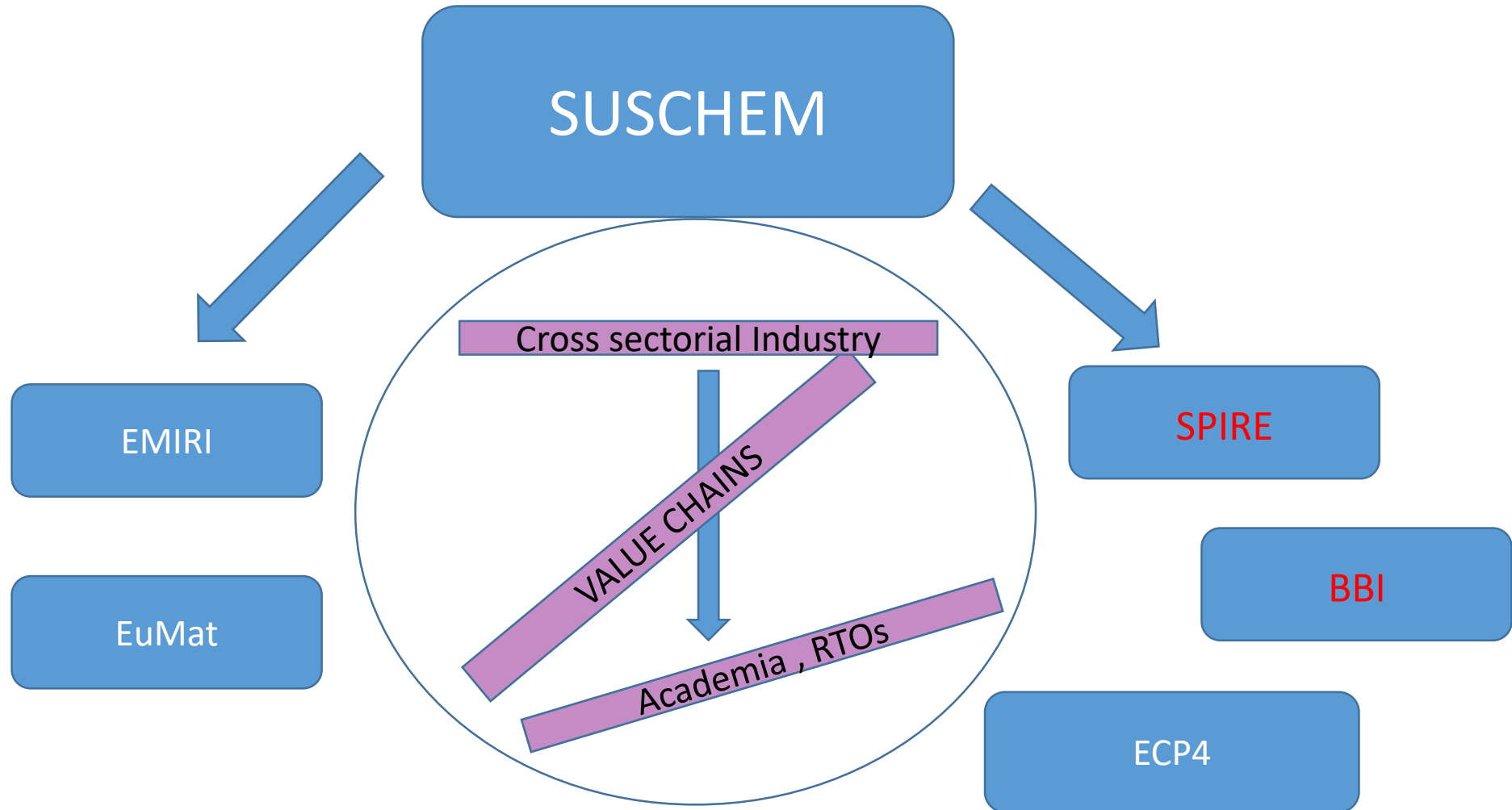
Technology Content

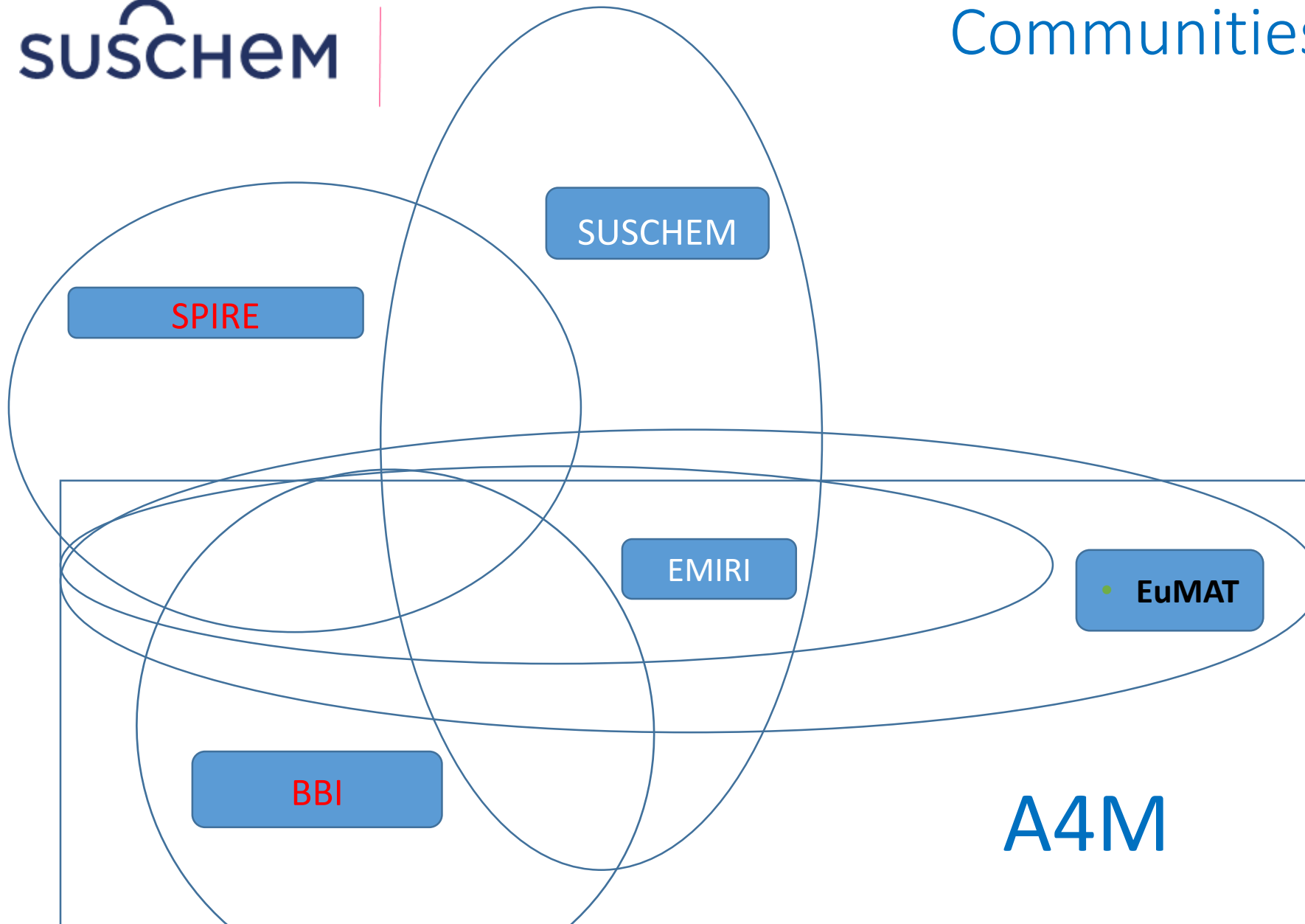
- Strategic Agenda
- Topics for project calls
- Flagship proposals



EXAMPLES OF MATERIALS TECHNOLOGIES : New generation lightweighting

- Development of high performance **reinforcement fibres** (glass, carbon, bio-based etc.) for composite materials
- Re-design of **polymer matrices** such as thermoplastic resins for advanced mechanical properties and cost effective manufacturing
- **Cellular material** developments including foamed nanostructuring and aerogel polymer blends
- Development of **recyclable new materials**, like thermoplastic resins, biobased resins and polymers (for example, PLA and sustainable composites)
- Upcycling of (in)organic waste streams
- Development of durable coatings (erosion, resistance)





- SusChem into HEurope : process , materials techs . Digital , sustainability and safe chemicals as transversal – SIRA development in link with SPIRE , BBI , EMIRI roadmaps
- SusChem into Heurope : stronger role of NTPs
- A4M umbrella for common positioning by different communities
- Circular economy : need to further integrate down the value chains .

SUSCHEM

Thank you!

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