

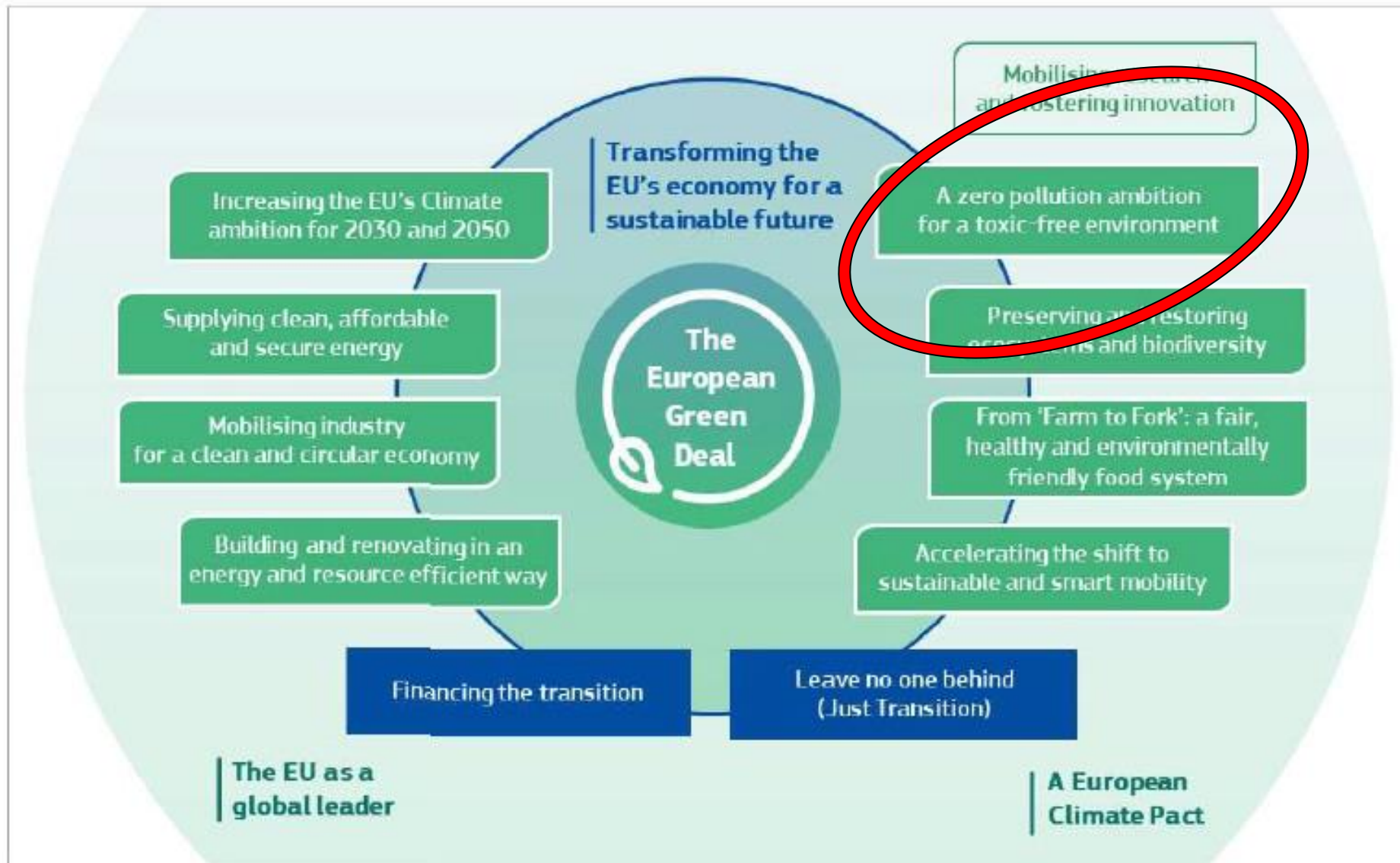


Introduction to the ongoing work on Safe and Sustainable by Design

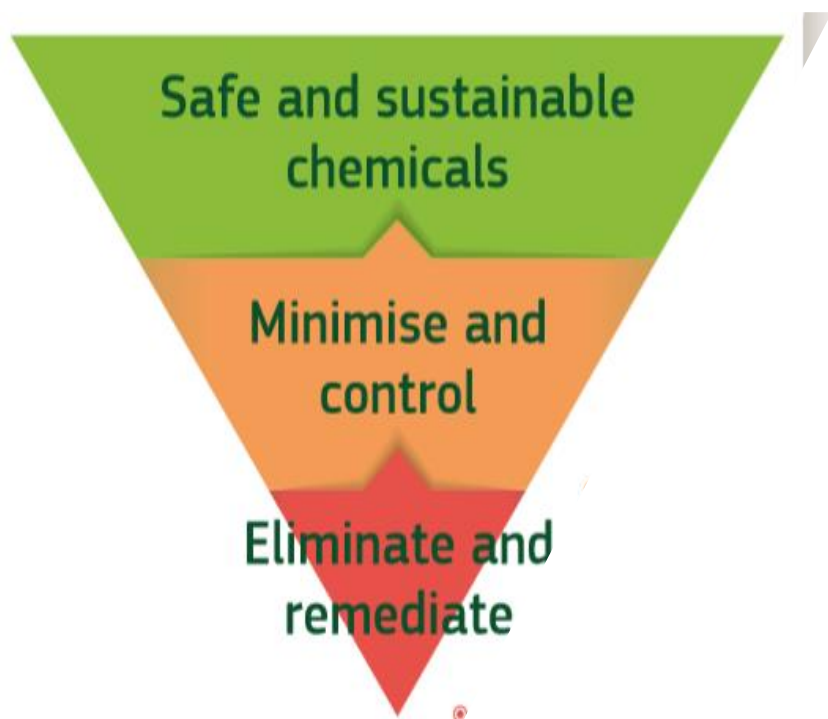
**2nd SSbD stakeholder workshop
22/03/2022**

**Elena Montani – Safe and sustainable chemicals – DG ENV
Javier Sanfelix – Industrial Transformation – DG R&I**

The European Green Deal



Chemicals Strategy: a 2030 vision towards a toxic-free environment



- **All chemicals** on the market to be used safely and sustainably.
- **Substitute and minimise as far as possible substances of concern**
- **Avoid the most harmful chemicals in consumer products esp. for vulnerable groups**



Innovation

- **Safe and sustainable by design**
- Strategic R&I agenda
- Funding
- KPIs for the industrial transition
- Sustainable Finance

Stronger EU legislation and global standards

- Avoid most harmful
- Essential uses
- Mixture assessment factor
- Minimise substances of concern
- Zero tolerance to non compliance
- EU leading globally

Knowledge base

- REACH registration
- Identification of hazards
- Environmental footprint of chemicals
- Transparency and data
- Tracking substance of concern
- Indicators
- (Bio)monitoring

EU related initiatives

Regulatory initiatives (mandatory):

- Ecodesign/Sustainable Products Initiative
- Green claims
- Products specific (e.g. batteries)

Regulatory initiatives (voluntary):

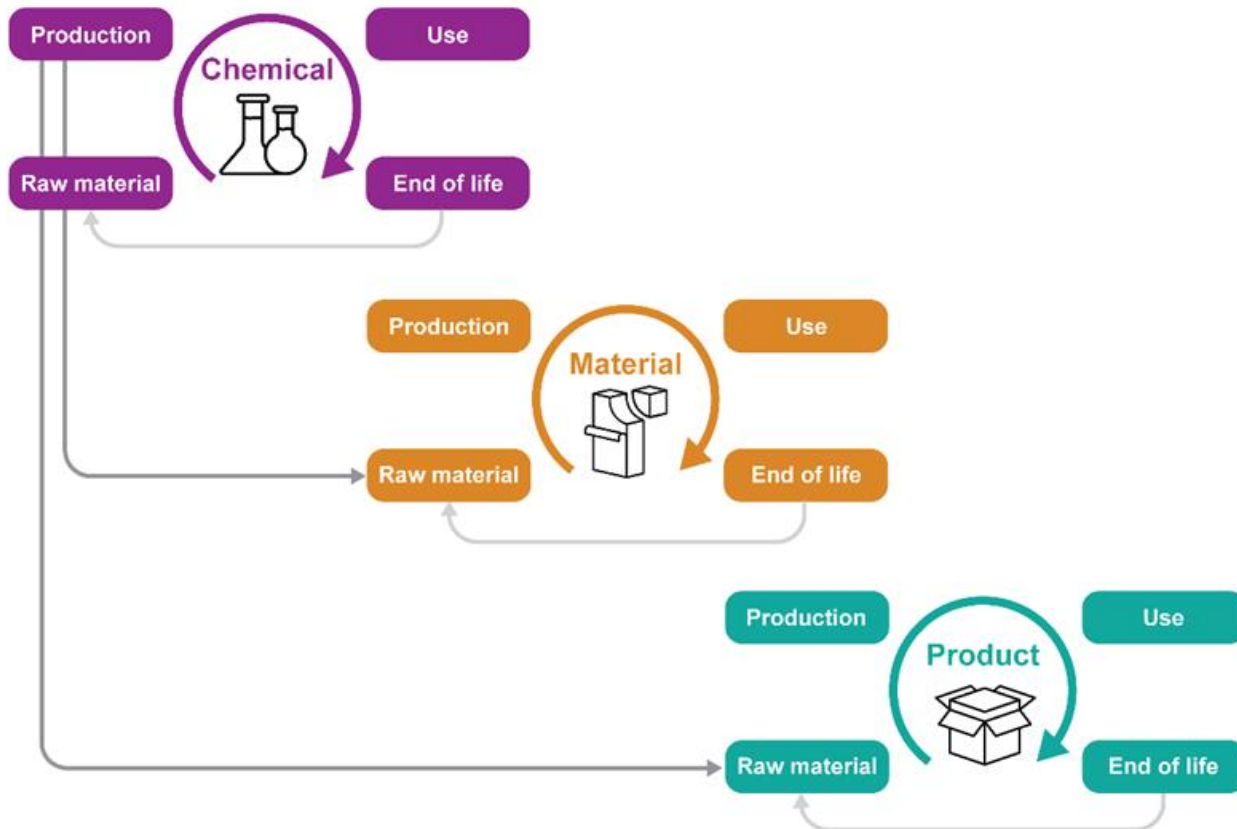
Sustainable
finance/taxonomy
Green public
procurement
Eco-label

R&I:

Financial support
(H2020-HEurope)
Toolbox/models (e.g.
nano)
Methodologies
Networks

The concept

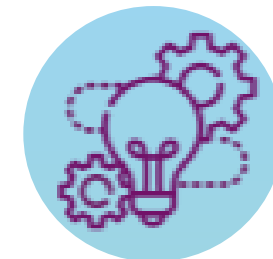
Safe and Sustainable by Design (SSbD) is an approach to the design, development and use of chemicals and materials that focuses on providing a function (or service), while reducing harmful impacts to human health and the environment



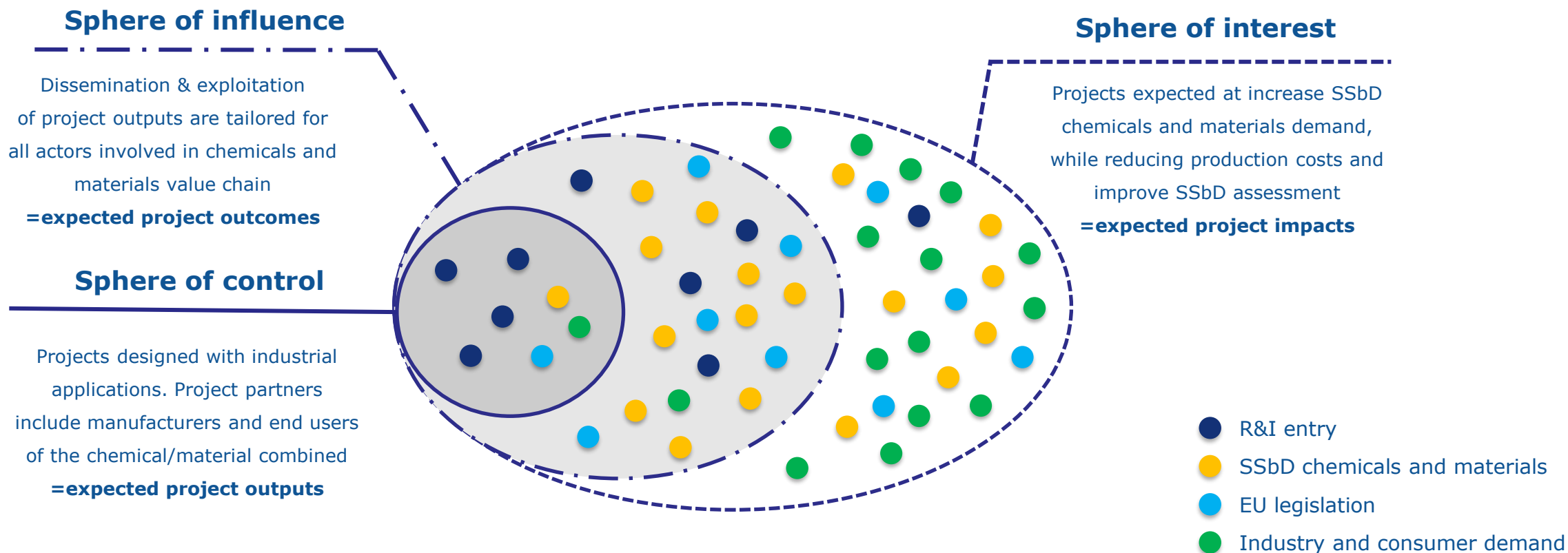
Scope
chemicals and materials

Expected applications of SSbD

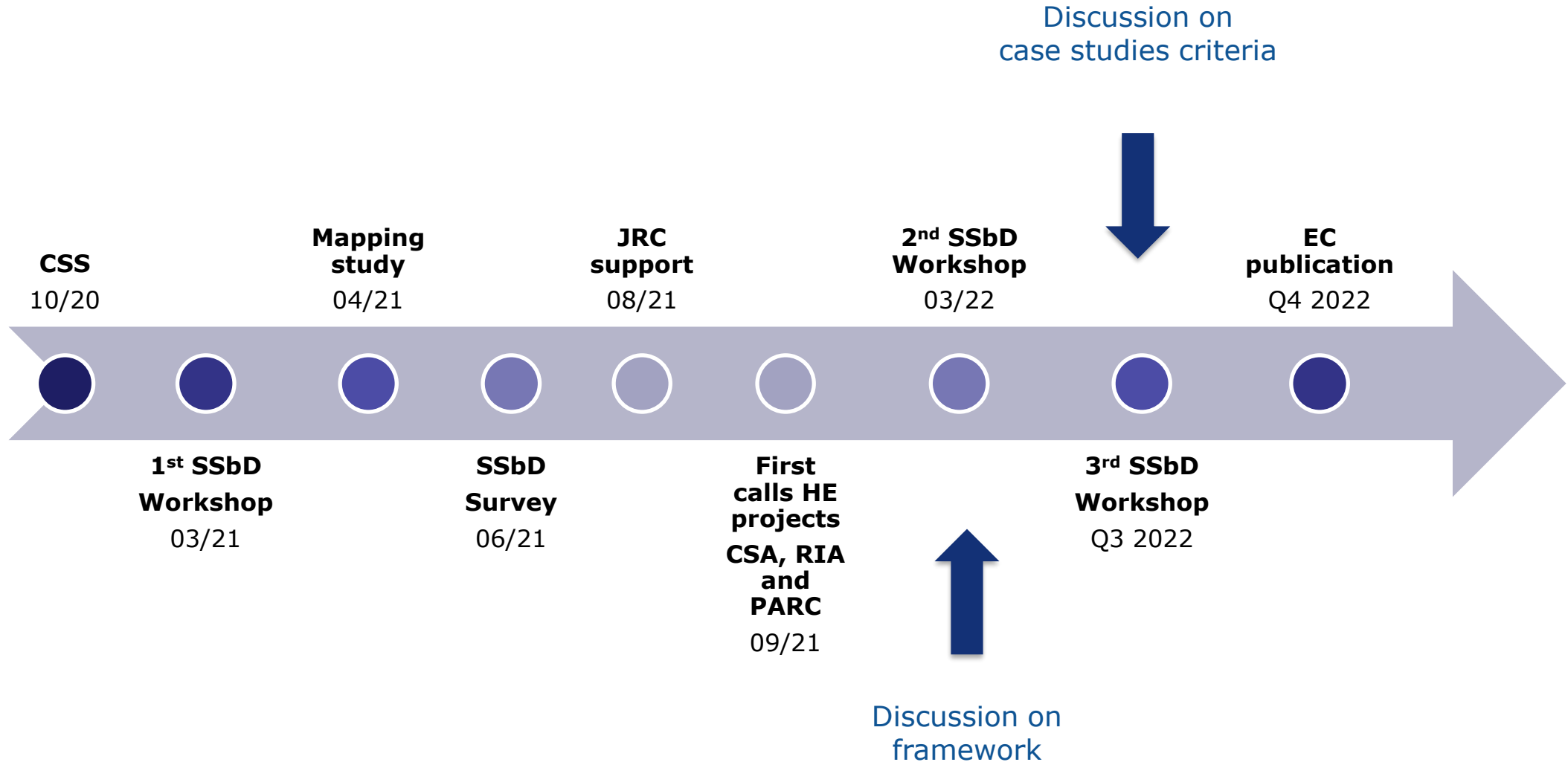
- **Steering innovation** towards the green industrial transition
- **Substitute (as far as possible) or minimise the production and use of substances of concern**, in line with and beyond upcoming regulatory obligations
- **Minimising the impact on climate and the environment** (air, water, soil) during sourcing, production, use and end-of-life of chemicals and materials



Expected impact/outcome in SSbD R&I



SSbD timeline

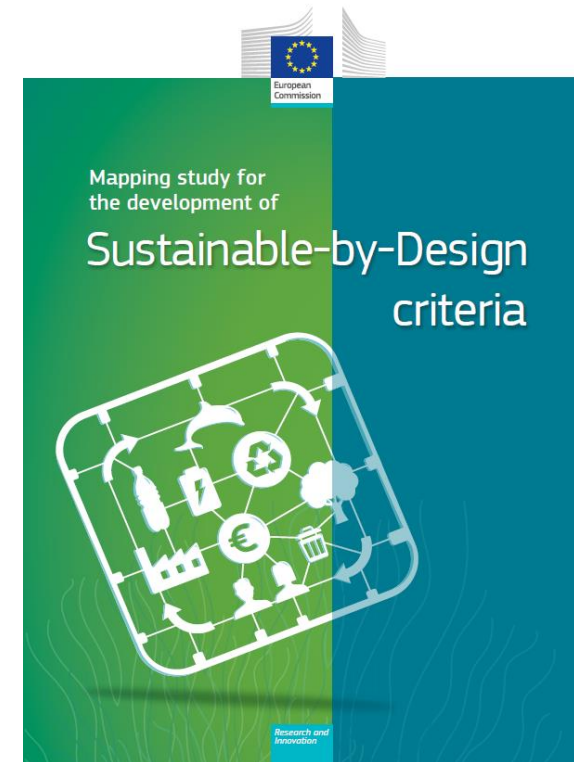


The starting point

- **Objectives:**

- Collect input for the development of the SSbD framework and criteria
- Identify existing policies and initiatives that implement sustainability criteria
- Analyze the progress in R&I

<https://op.europa.eu/en/publication-detail/-/publication/f679c200-a314-11eb-9585-01aa75ed71a1/language-en>



SSbD survey

The main focus of the survey was to:

- ✓ Complement the Mapping Study on existing initiatives
- ✓ Explore expectations for SSbD criteria
- ✓ Investigate preferred implementation options



Results of the SSbD survey

- **Contribute to existing and upcoming initiatives** (Sustainable Products Initiative, EU Ecolabel and Ecodesign)
- **Align with existing chemicals regulation** (REACH and CLP)
- **Harmonising criteria**
- **Fostering innovation** and allow the green industrial transition
- Developing alternatives to substances of concern and **avoid regrettable substitution**

Joint action with EU Joint Research Centre

- Technical and scientific support to DG RTD on the development of the SSbD framework and criteria
- Define safety and sustainability dimensions to consider under SSbD
- Develop a framework that allows the assessment of safety and sustainability and the definition of criteria for chemicals and materials
- Develop a set of SSbD criteria for a case study



Horizon Europe support

- Encouraging a reference to **SSBD in new topics** dealing with chemicals and materials
- **Cluster 4** - Digital, industry and space (21-22)
 - One CSA and 3 RIAs
- **Cluster 1** – Health (22-23)
 - PARC – develop toolboxes for SSbD assessment
- Next Work Programme 23-24 continued support to methods and case studies



HORIZON EUROPE

- Feedback loop to refine SSbD criteria
- Make data, methods and tools findable, accessible, interoperable and reusable

Next steps



- Deadline for written comments 5 April 2022
 - **Word template sent to**
RTD-SUSTAINABLE-BY-DESIGN@ec.europa.eu
- Next stakeholder workshop Q3 2022 on case studies
 - **Announcement done via SSbD network**



**Thank you for your
attention**

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