



DIGITAL SOLUTIONS FOR SSbD

INTEGRATE AND BALANCE

6th SSbD Stakeholder Conference,

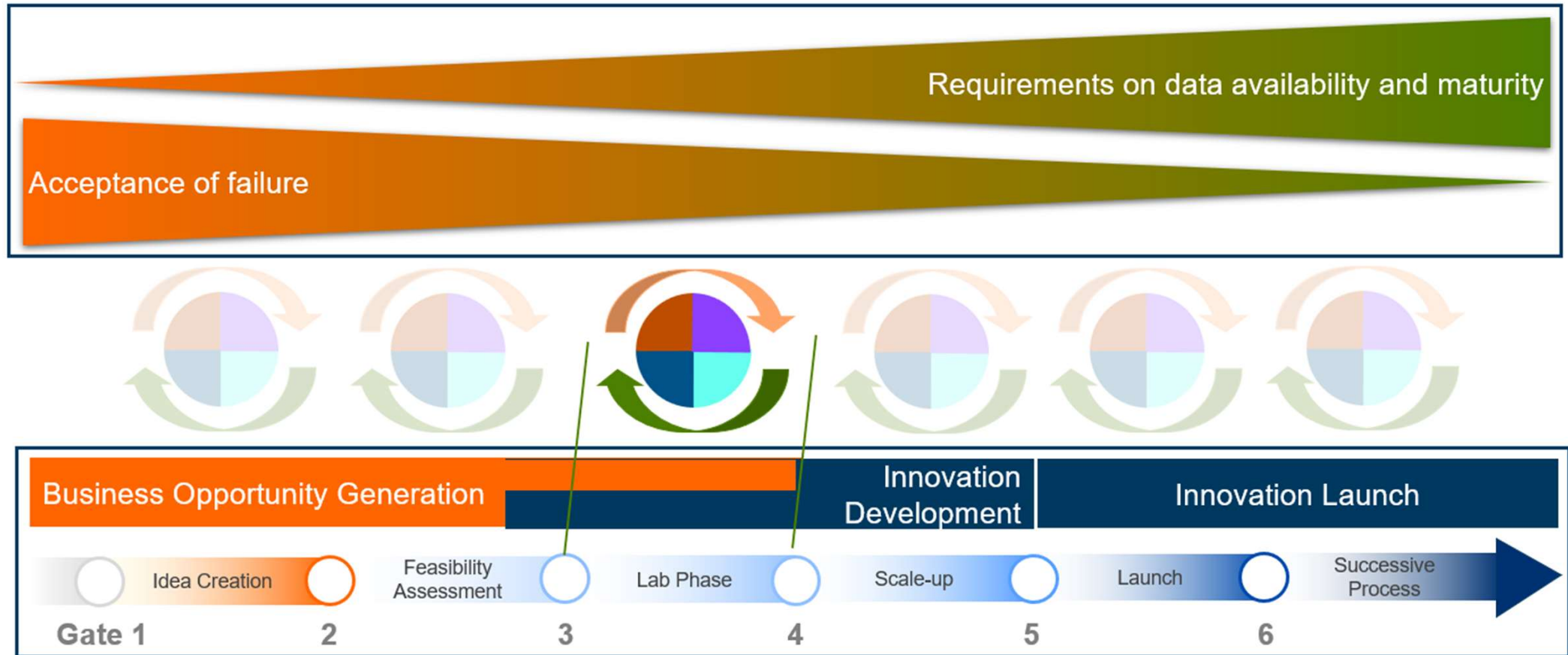
Brussels, 19 March 2026



THE PINK PROJECT HAS RECEIVED FUNDING FROM THE EUROPEAN UNION'S HORIZON EUROPE RESEARCH AND INNOVATION PROGRAMME UNDER GRANT AGREEMENT NO. 101137809.

ASSOCIATED PARTNERS (I.E. (A) SWISS PARTNERS AND (B) UK PARTNERS) HAVE RECEIVED NATIONAL FUNDING FROM (A) THE SWISS STATE SECRETARIAT FOR EDUCATION, RESEARCH AND INNOVATION (SERI), AND (B) INNOVATE UK.

PINK's tiered approach



Case Study 1: Organic synthetic UV-filter

Octocrilene

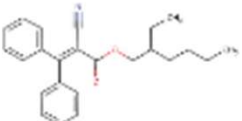
Regulatory process names 13 IUPAC names 20 Trade names 7 Other

Substance identity

EC / List no.: 228-250-8

CAS no.: 6197-30-4

Mol. formula: C₂₄H₂₇NO



About this substance

This substance is registered under the REACH Regulation for manufacturing, use, or importation in the European Economic Area, for 1 000 to 10 000 tonnes per annum.

This substance is used by consumers in articles, by professional workers (e.g. in agriculture or in construction), in professional uses, in packing, at industrial sites and in manufacturing.

substance	molecule	Ames mutagenicity (predicted)	Ames mutagenicity (measured)
Octocrylene	CCCCC(CO)COC(=O)C(=C/C1=CC=CC=C1)C2=CC=CC=C2)C#N	negative	negative
████	████████████████████	negative	negative
████	████	negative	negative
████	████████	negative	negative
████	████████	positive	negative
████	████████████████	negative	negative
████	████████████████	positive	negative
████	████	negative	negative
████	████	negative	negative

Impact category	SMILES to impact prediction	BASF report
Acidification [Mole of H+ eq.]	0,0211	████
Climate Change - total [kg CO2 eq.]	5,53	████
Climate Change, biogenic [kg CO2 eq.]	0,00497	████
Climate Change, fossil [kg CO2 eq.]	5,72	████
Climate Change, land use and land use change [kg CO2 eq.]	0,00380	████
Ecotoxicity, freshwater - total [CTUe]	124	████
Ecotoxicity, freshwater inorganics [CTUe]	77,1	████
Ecotoxicity, freshwater organics [CTUe]	3,13	████
Eutrophication, freshwater [kg P eq.]	0,00159	████
Eutrophication, marine [kg N eq.]	0,00752	████
Eutrophication, terrestrial [Mole of N eq.]	0,0606	████
Human toxicity, cancer - total [CTUh]	0,000000004	████████
Human toxicity, cancer inorganics [CTUh]	0,000000001	████
Human toxicity, cancer organics [CTUh]	0,000000003	████
Human toxicity, non-cancer - total [CTUh]	0,000000064	████████
Human toxicity, non-cancer inorganics [CTUh]	0,000000045	████
Human toxicity, non-cancer organics [CTUh]	0,000000006	████

Hazard

→

LCA

→

Functionality

→

Degradation

→

Process optimisation

→

Physicochemical characterisation

→

Mechanistic knowledge

→

Source: ECHA substance information

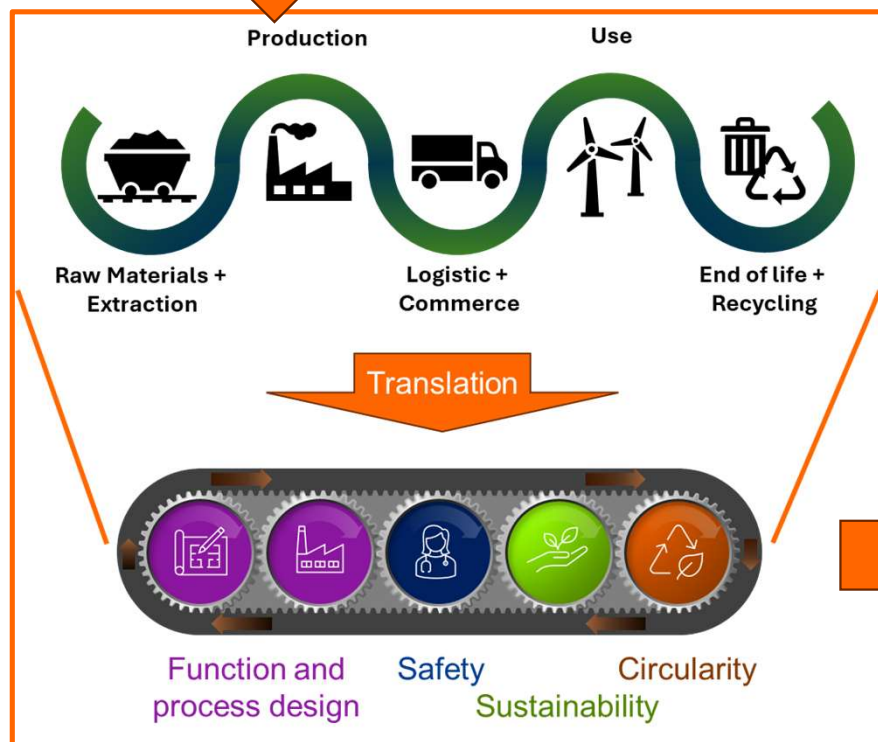
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SbD Stakeholder Conference
Brussels, 19 March 2026

Business Opportunity Generation

Development

Launch



>PINKISH Explore Contribute SSbD Assistant About

UVB-filter used in sunscreens

Project > Iteration 1 > 1. Scoping & scenario | 2. Assessment | 3. Evaluation

SSbD assessment octocrylene

Identification Functionality Safety Sustainability View: Detail | Summary

Carcinogenicity

Name	Details	Link	Results
Profilers			
Carcinogenicity (genotox and nongenotox) alerts by ISS	details	visit	Upload
Qualitative QSAR			
FDA RCA Cancer Rodent - Danish QSAR DB CASE Ultra model	details	visit	results
VEGA - Carcinogenicity model (CAESAR)	details	visit	results
FDA RCA Cancer Rat - Danish QSAR DB Leadscope model	details	visit	results
FDA RCA Cancer Female Rat - Danish QSAR DB CASE Ultra model	details	visit	Upload
FDA RCA Cancer Mouse - Danish QSAR DB Leadscope model	details	visit	results

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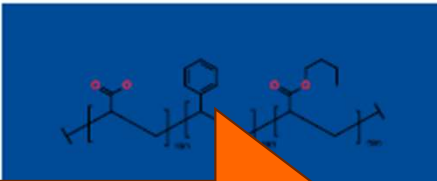
Case Study 2: Styrene/acrylate copolymers

Styrene/acrylate copolymers are structurally similar polymers that result from the polymerisation of acrylate, methacrylate and styrene monomers.

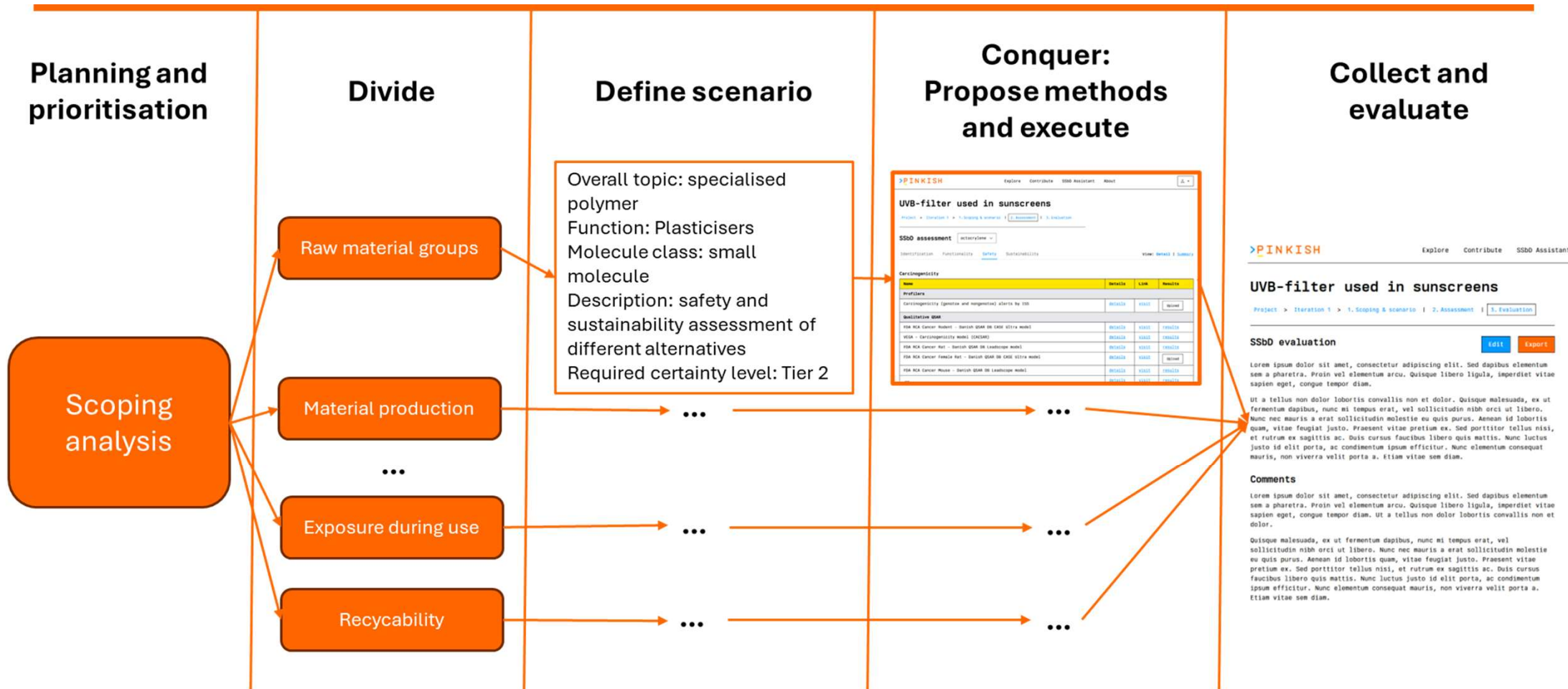
Acrylate polymers biodegrade slowly under environmental conditions

Generic examples:

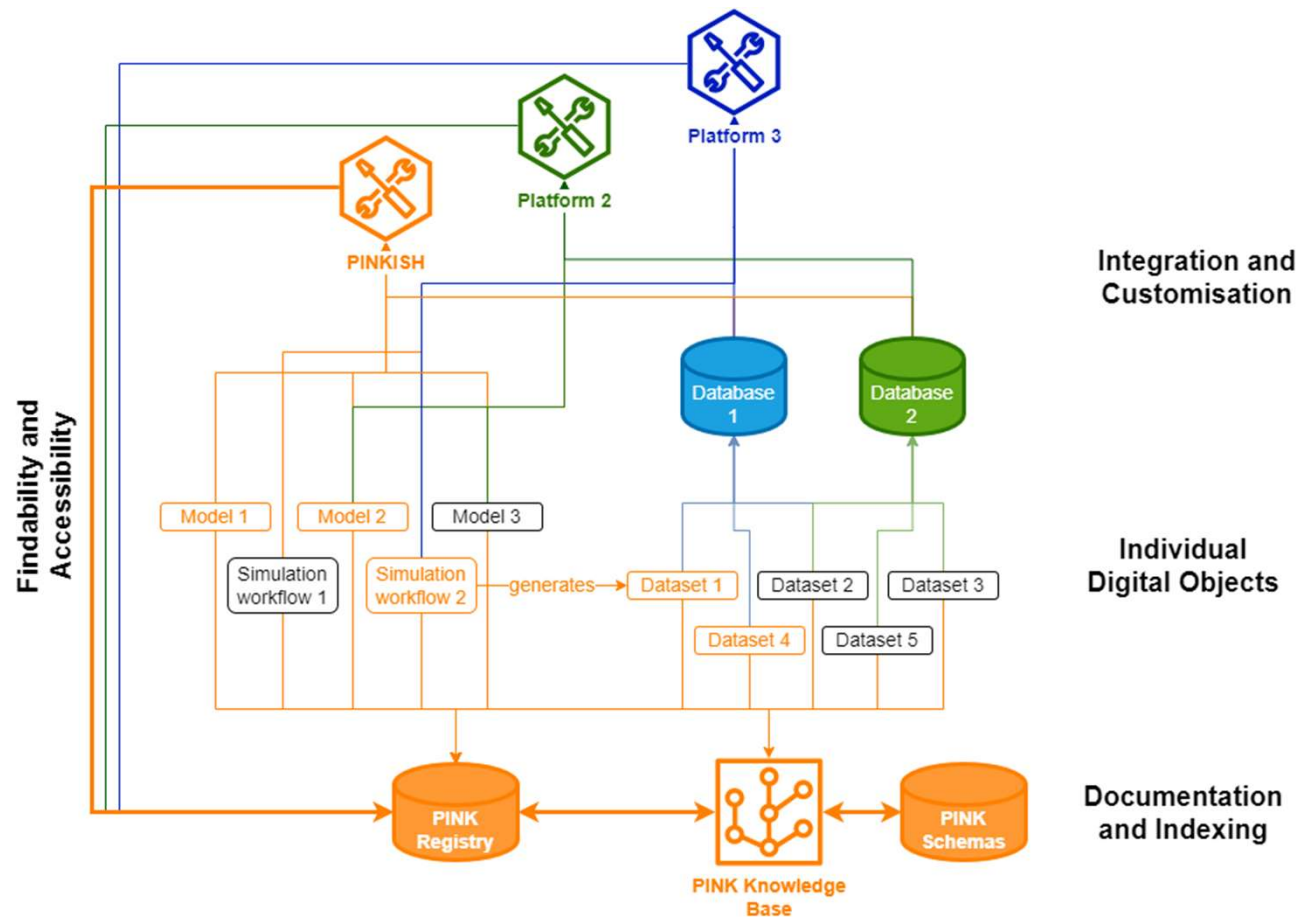


Areas relevant for SSbD			
	Polymer functionality		
	Polymer LCA		
	Polymer degradation and recycling		
	Polymer safety		
	Monomers		
	Additives		
	Leachates		
	Transformations during production and use		
	...		
	building adhesives and sealants	Approx. 5%	Approx. 45%
	architectural coatings		
	overprint varnishes & inks		Approx. 50%

Iteration in the PINKISH SSbD Assistant



Working towards an interoperable ecosystem



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- 1 Thomas Exner
- 2 Seven Past Nine

>THANK YOU!

WWW.PINK-PROJECT.EU



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