

Klastr 4 - výzva 2021

		Typ akce	Celkový rozpočet na téma (mil. €)	Doporučený rozpočet na projekt (mil. €)	Předpokládaný počet projektů	Počet návrhů
DESTINATION 1 - topics	Climate neutral, circular and digitised production		403			296
Section	Green, flexible and advanced manufacturing					
2021-TWIN-TRANSITION-01-01	AI enhanced robotics system for smart manufacturing	IA	28	8 - 10	3	22
2021-TWIN-TRANSITION-01-02	Zero-defect manufacturing towards zero-waste	IA	27	8 - 10	3	48
2021-TWIN-TRANSITION-01-03	Laser-based technologies for green manufacturing	RIA	26	5 - 7	4	39
2021-TWIN-TRANSITION-01-05	Manufacturing technologies for bio-based materials	RIA	20	4 - 6	4	58
Section	Advanced digital technologies for manufacturing					
2021-TWIN-TRANSITION-01-07	Artificial Intelligence for sustainable, agile manufacturing	IA	18	4 - 6	3	23
2021-TWIN-TRANSITION-01-08	Data-driven Distributed Industrial Environments	IA	24	4 - 8	3	21
Section	A new way to build, accelerating disruptive change in construction					
2021-TWIN-TRANSITION-01-10	Digital permits and compliance checks for buildings and infrastructure	IA	15	5	3	8
2021-TWIN-TRANSITION-01-11	Automated tools for the valorisation of construction waste	RIA	21	6 - 10	3	12
2021-TWIN-TRANSITION-01-12	Breakthrough technologies supporting technological sovereignty in construction	IA	24	8 - 10	3	16
Section	Hubs for circularity, a stepping stone towards climate neutrality and circularity in industry					
2021-TWIN-TRANSITION-01-14	Deploying industrial-urban symbiosis solutions for the utilization of energy, water, industrial waste and by-products at regional scale	RIA	28	8 - 12	3	15
2021-TWIN-TRANSITION-01-16	Hubs for European Circularity Community of Practice (ECOP) platform	CSA	2	2	1	2
Section	Enabling circularity of resources in the process industries, including waste, water and CO2/CO					
2021-TWIN-TRANSITION-01-17	Plastic waste as sustainable carbon feedstock for industry	IA	39	12 - 18	3	7
2021-TWIN-TRANSITION-01-18	Carbon Direct Avoidance in steel: Electricity and hydrogen-based metallurgy	IA	28	6 - 8	3	2
2021-TWIN-TRANSITION-01-19	Improvement of the yield of the iron and steel making	IA	14	4 - 5	4	6
2021-TWIN-TRANSITION-01-20	Reducing environmental footprint, improving circularity in extractive and processing value chains	IA	36	12	3	8
Section	Integration of Renewables and Electrification in process industry					
2021-TWIN-TRANSITION-01-21	Design and optimization of energy flexible industrial processes	IA	39	12 - 18	3	8
2021-TWIN-TRANSITION-01-22	Adjustment of Steel process production to prepare for the transition towards climate neutrality	IA	14	4 - 5	3	1

DESTINATION 2 - topics	Increased autonomy in key strategic value chains for resilient industry		355,2			225
Section	Novel paradigms to establish resilient and circular value chains					
2021-RESILIENCE-01-01	Ensuring circularity of composite materials	RIA	24,7	8 - 9	3	34
Section	Raw materials for EU strategic autonomy and successful transition to a climate-neutral and circular economy					
2021-RESILIENCE-01-03	Identifying future availability of secondary raw materials	RIA	13,5	13,5	1	1
2021-RESILIENCE-01-04	Developing climate-neutral and circular raw materials	IA	36	12	3	9
2021-RESILIENCE-01-05	Building EU-Africa partnerships on sustainable raw materials value chains	CSA	8	8	1	4
2021-RESILIENCE-01-06	Innovation for responsible EU sourcing of primary raw materials, the foundation of the Green Deal	RIA	30	7,5	4	7
2021-RESILIENCE-01-07	Building innovative value chains from raw materials to sustainable products	IA	36	12	3	4
Section	Green and Sustainable Materials					
2021-RESILIENCE-01-08	Establishing EU wide safe and sustainable-by-design materials community to support embedding sustainability criteria over the life cycle of products and processes	CSA	4	3 - 4	1	3
2021-RESILIENCE-01-09	Promote Europe's availability, affordability, sustainability and security of supply of essential chemicals and materials	IA	28	7 - 10	3	1
2021-RESILIENCE-01-10	Paving the way to a increased share of recycled plastics and added value products	RIA	23	5 - 7	3	11
2021-RESILIENCE-01-11	Safe- and sustainable-by-design polymeric materials	RIA	19	4 - 5	5	10
2021-RESILIENCE-01-12	Safe- and sustainable-by-design metallic coatings and engineered surfaces	RIA	19	4 - 5	4	18
Section	Materials for the benefit of society and the environment and materials for decarbonising Industry					
2021-RESILIENCE-01-14	Development of more energy efficient electrically heated catalytic reactors	IA	33	7 - 10	8	8
2021-RESILIENCE-01-16	Creation of an innovation community for solar fuels and chemicals	CSA	4	3 - 4	1	2
2021-RESILIENCE-01-17	Advanced materials for hydrogen storage	RIA	21	4 - 6	4	19
2021-RESILIENCE-01-20	Antimicrobial, Antiviral, and Antifungal Nanocoatings	RIA	23	4 - 6	4	47
Section	Materials and data cross-cutting actions					
2021-RESILIENCE-01-25	Biomaterials database for Health Applications	CSA	6	2 - 4	2	2
2021-RESILIENCE-01-26	Sustainable Industry Commons	RIA	6	2 - 4	2	6
Section	Improving the resilience and preparedness of EU businesses, especially SMEs and Startups					
2021-RESILIENCE-01-27	Innovation Radar, Tech Due Diligence and Venture Building for strategic digital technologies	CSA	4	2.5 - 4	1	7
2021-RESILIENCE-01-28	Re-opening industrial sites preparatory action – Promoting a sustainable strategy for Europe's industrial future	CSA	2	1	1	1
2021-RESILIENCE-01-29	'Innovate to transform' support for SME's sustainability transition	CSA	10	5	2	25
2021-RESILIENCE-01-31	European Technological and Social Innovation Factory	CSA	5	3 - 5	1	6