



A4M_EUMAT Workshop

Advanced Materials Technologies

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Horizon 2020: Status 2019 Advanced materials & Nanomaterials

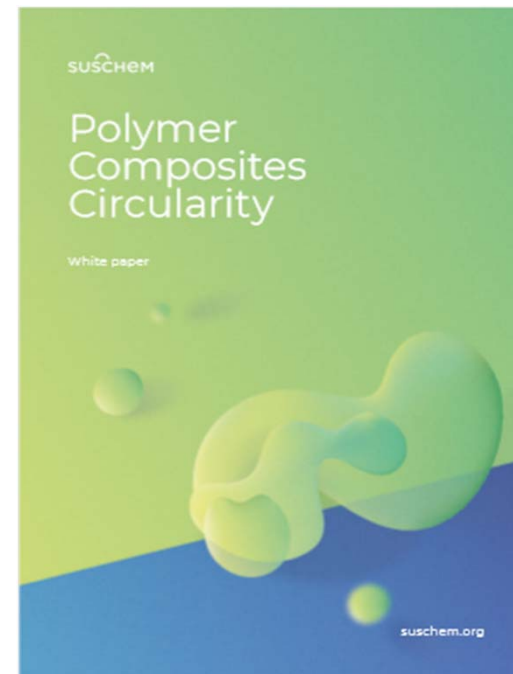
Innovation on Nanomaterials & Advanced Materials technologies is highest priority at H2020





SusChem Advanced Materials Technologies: Context

Innovation on Advanced Materials technologies. Most recent SusChem activities



SC SusChem: Consolidating SIRA towards Horizon Europe



Towards a New SusChem SIRA Workshop

May 16-17
Brussels, Belgium



SUSCHEM – Advanced Materials Technologies

SusChem technology pillar: **ADVANCED MATERIALS TECHNOLOGIES**

Expected Impact of Advanced Materials technologies

Innovation in materials is closely connected with the United Nations Sustainable development goals (SDGs): SDG9 Industry Innovation and Infrastructure, SDG12 Responsible consumption and production and SDG13 Climate action. Nonetheless, impact is also expected on SDG6 Clean water and sanitation, SDG7 Affordable and Clean Energy, SDG8 Decent work and Economic Growth as well as SDG11 Sustainable cities and communities.



Figure 1: Preliminary assessment: potential impact of Advanced Materials on UN SDGs
Source: [UN Sustainable Development Goals Knowledge Platform](#)

Materials-related technology priorities are also expected to be deeply linked with Horizon Europe Research and Innovation Pillar 2 - Global Challenges and Industrial competitiveness (in particular with clusters Health; Digital and Industry; Climate, Energy and Mobility and Food and natural resources). Links with the structure of Pillar 3 - Open Innovation and Pillar 1 - 'Open Science' remain to be confirmed.

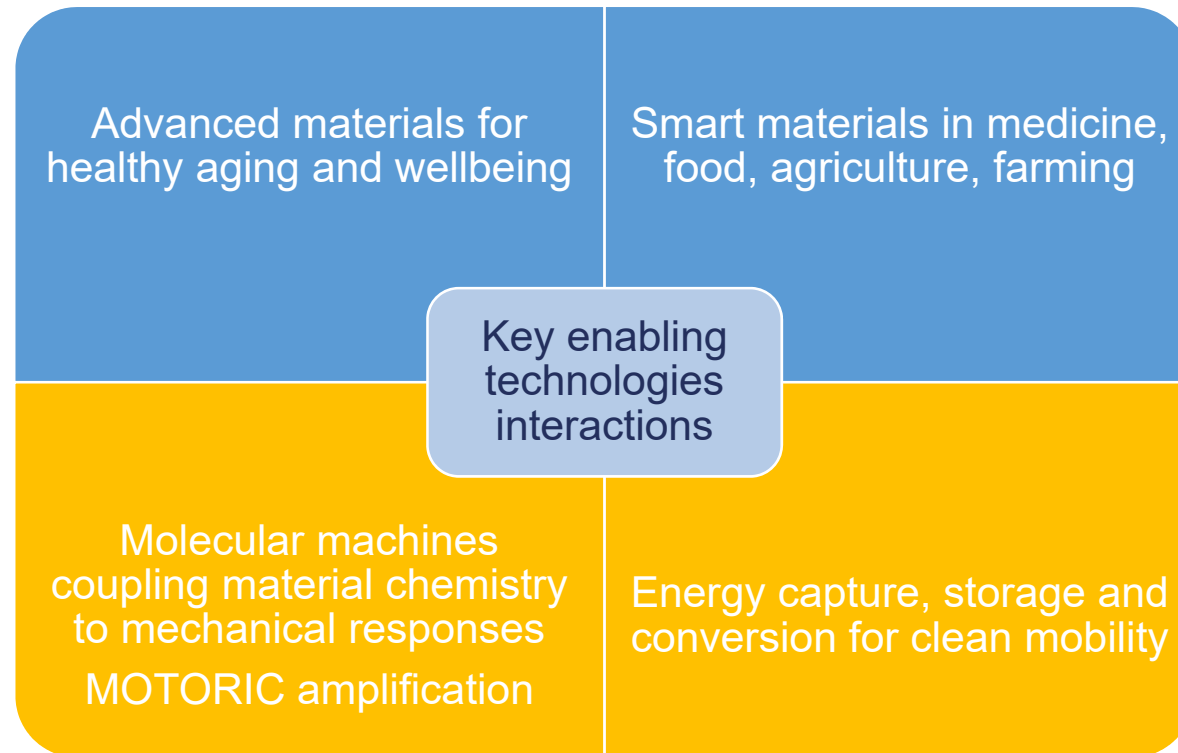


Figure 2: HEU - structure elements (P-1, P-2 & P-3); Source: [Commission proposal for Horizon Europe](#)

Thank you



Advanced Materials and Nanomaterials: Emerging interactions





Horizon 2020 Advanced Materials Technologies: Status 2019

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Some relevant examples

InnovaConcrete: Innovative materials and techniques for the conservation of 20th century concrete-based cultural heritage

<https://cordis.europa.eu/project/rcn/212836/factsheet/en>

MEMBER: Advanced MEMBranes and membrane assisted procEsses for pre- and post- combustion CO2 captuRe

<https://cordis.europa.eu/project/rcn/212844/factsheet/en>

CARMOF: New process for efficient CO2 capture by innovative adsorbents based on modified carbon nanotubes and MOF materials

<https://cordis.europa.eu/project/rcn/212340/factsheet/en>

LISA: Lithium sulphur for SAfe road electrification

<https://cordis.europa.eu/project/rcn/219988/factsheet/en>