



EIC PATHFINDER CHALLENGES IN THE EIC WORK PROGRAMME 2024



- EIC Pathfinder Open: €136 million [**deadline: 7 March**]
- EIC Pathfinder Challenges: €120 million [**deadline: 16 October**]

1

"SOLAR-TO-X" DEVICES

- To make progress towards synthetic fuels and chemical technologies integrating all necessary conversion steps into a single device, solely and directly driven by solar energy.

2

TOWARDS CEMENT AND CONCRETE AS A CARBON SINK

- To support breakthrough innovations and (alternative) pathways for decarbonised and carbon-negative cement and concrete.

3

NATURE INSPIRED ALTERNATIVES FOR FOOD PACKAGING AND FILMS

- To support interdisciplinary research leading to the development and production of sustainable nature inspired alternatives for food packaging and agricultural production such as, but not limited to, greenhouse and mulch films.
- To replace the use of fossil-carbon-based plastics from farm to fork and thereby support EU policy ambitions to move towards a more circular, resource efficient economy.

4

NANOELECTRONICS FOR ENERGY-EFFICIENT SMART EDGE DEVICES

- To explore solutions that will have a drastic impact on decreasing the power consumption of any smart edge device, especially for Edge Processing and memories, Edge Sensing and Imaging, Edge Communication and Edge Power Management.

5

STRENGTHENING THE SUSTAINABILITY AND RESILIENCE OF EU SPACE INFRASTRUCTURE

- To support the development of innovations strengthening the protection of EU space infrastructure.
- To develop technologies for space debris mitigation and active debris removal and concepts for in-space recycling of dysfunctional orbital assets.