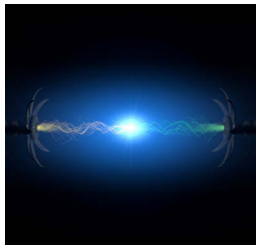
European Commission

Moonshots



Future Circular Collider

What: Sustain Europe's leadership in particle physics by investing in CERN's next-generation collider.

How: Co-invest with other CERN countries, leveraging Horizon Europe funding.



Clean Aviation

What: Lead the world in developing the next generation of CO_2-free aircraft.

How: Bring together industry and scientific capacities to achieve breakthroughs in clean aviation.



Quantum Computing

What: Make Europe the first continent with fully integrated quantum computing in daily life.

How: Develop applications from medicine to climate, solving previously impossible problems for 450 million citizens.



Next Generation AI

What: Model the new AI on the laws of nature and grounded in physics and biology.

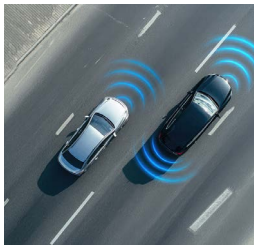
How: AI developed by, with, and for European scientists and industry, drawing to Europe the world's best minds.



Data Sovereignty

What: Make Europe the global leader and safest hub for critical research data.

How: Provide access to critical data for researchers, universities and companies, offering competitive advantage in tackling global challenges.



Automated Transport and Mobility

What: Advance safe, inclusive, and emission-reducing automated transport and mobility in Europe.

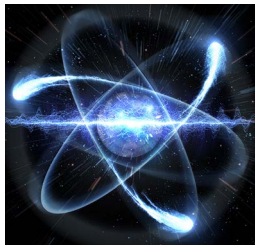
How: Invest in smart transport systems to improve traffic, reduce emissions, and enhance access.



Regenerative Therapies

What: Deliver breakthrough therapies to improve people's health and lives.

How: Harness Europe's scientific strengths to treat incurable diseases and personalise medicine.



Fusion Energy

What: The first commercial nuclear fusion power plant, generating safe, consistent, and reliable electricity.

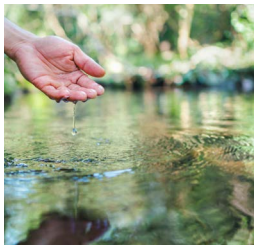
How: Overcome the scientific and technological challenges necessary to put fusion on the grid in Europe by 2034.



Space Economy

What: Make Europe the leader in the space economy.

How: Develop the next generation launch vehicles such as reusable rockets, able to deploy massive cargo by 2040.



Zero Water Pollution

What: Move towards zero pollution of water in the EU.

How: Stimulate innovation to build a true water-smart economy which secures sufficient, clean and affordable water and sanitation to all at all times.



Ocean Observation

What: Achieving strategic autonomy in ocean observation infrastructure, data and information services.

How: Developing, connecting, governing and securing the next generation of European ocean observing technologies

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