

Space Technology to enable healthcare of tomorrow

Space applications in the healthcare sector and funding opportunities by the European Space Agency

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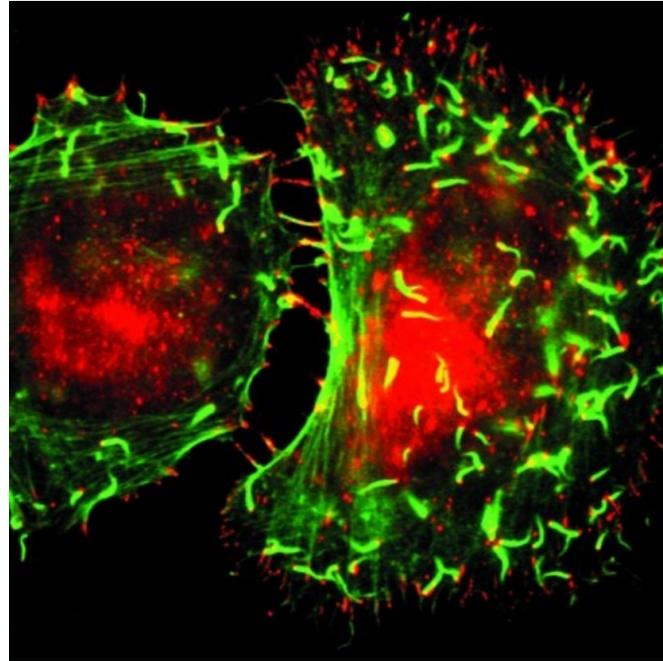
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Multiple Beneficiaries



3 Use Cases



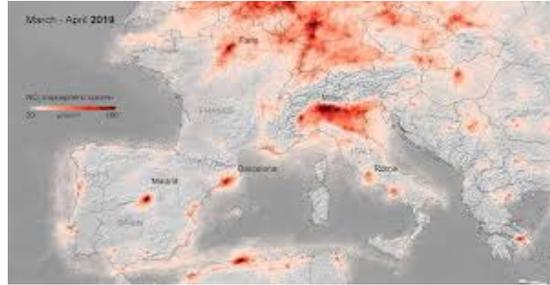
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GLOBAL



Generating impacts at all Scales



LOCAL



INDIVIDUAL



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ESA's Missions wrt Health

Deliver best science and clinical care for space exploration

Deliver social value and economic sustainability

Expand the utilization of space in new markets and user communities

Strengthen European Industry competitiveness on global space and non-space markets





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- A **SPACE** Agency and a **promoter** of Space Data & Technologies
- A **facilitator** providing resources (money, experience, network...)
- Able to support **Technology R&D** related to Health (Science, Crew Health) and **BUSINESS-oriented solutions/products integrating space assets** (commercialisation)
- Offering multiple programmes and tools (with their pros and cons)
- Focused and Competent team coaching you on activities creating and evidencing **IMPACTS**



- A **Health** Agency
- A bank: we fund **projects** based on **contracts (no grant!)**
- A babysitter: we will not find the idea (risk of negative influence) & write the proposal for you 😊 but we will certainly help you



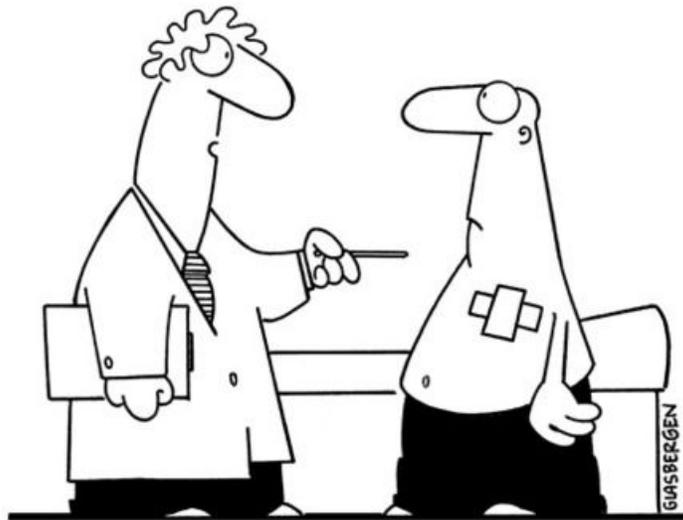


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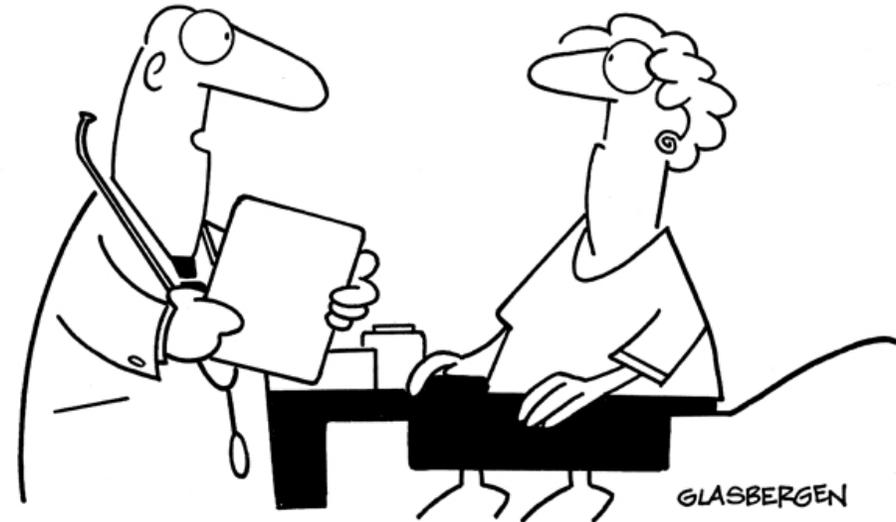
ESA concretely supports...

- Use of new technologies



"It's a pacemaker for your heart, plus you can download apps for your liver, kidneys, lungs, and pancreas!"

- Use of new concepts, paradigms & workflows



"I looked up your symptoms on Google. If you want a second opinion, I can check Yahoo."



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Examples of Space value for Use related to Health (non exclusive)



Satellite Communications

- Provide connectivity where terrestrial communications is insufficient / impossible
- Enable remote monitoring through transmission of sensor data



Earth Observation

- Provide contextual situational awareness
- Provide collection of data for production of images and maps environment
- Epidemiological data complement



Satellite Navigation

- Provide location data for epidemiological analysis
- Support cross-certification of patient data
- Track and route emergency vehicles/ambulances
- Enable applications in the VR/AR sector



Human Spaceflight technologies

- Prevention / Monitoring / Diagnostic / Imaging technologies
- Provide support to sanification/decontamination



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Space Technology...

coupled with...

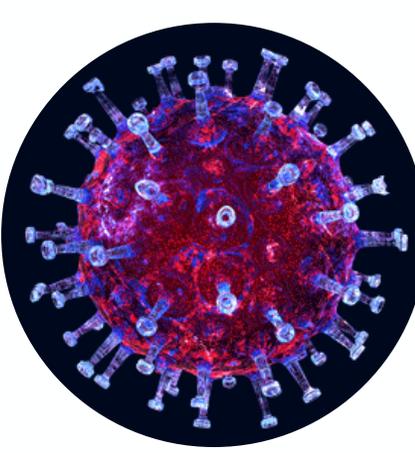
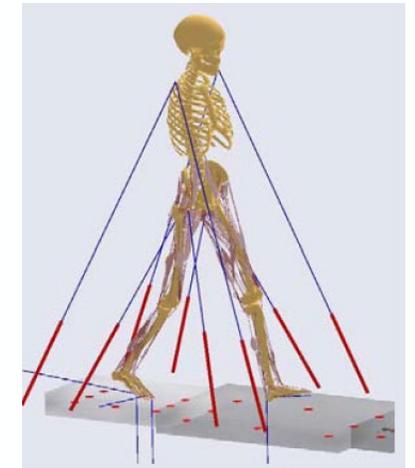
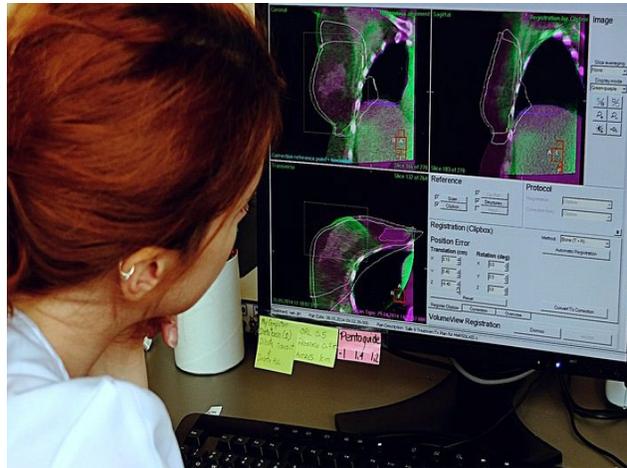
-  Earth Observation
-  Satellite Navigation
-  Satellite Communication
-  Spaceflight Technologies
-  Space Weather



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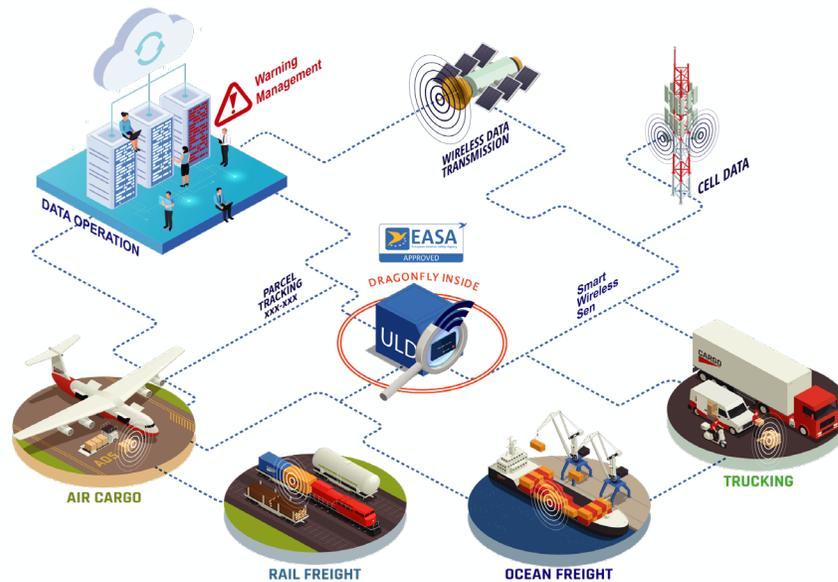
What did we do? More than 250 activities...



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...among which good ones in Belgium!



B-LiFE





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How to collaborate?

A. Become a contractual partner and run projects!

- Look at our existing calls and **apply!**
- You have an idea ? Contact us

B. Develop some (organisational) partnership with ESA!

- Share your needs / upcoming call for projects: **we can fund the ones making use of space elements**
- Get involved in shaping dedicated calls for projects / be a broker
- Help us to help you finding solutions!



We Need You!!





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Tools to run activities with ESA

Don't leave before listening to the presentation at 16:00 😊

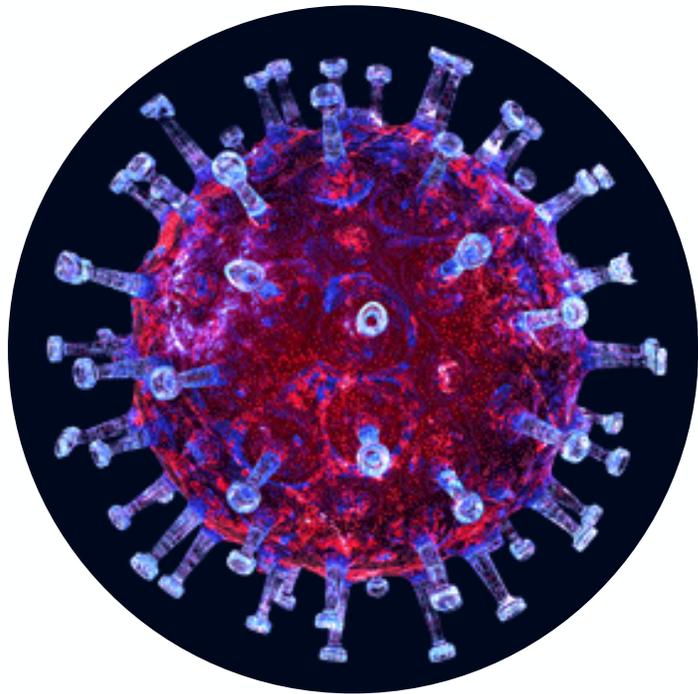


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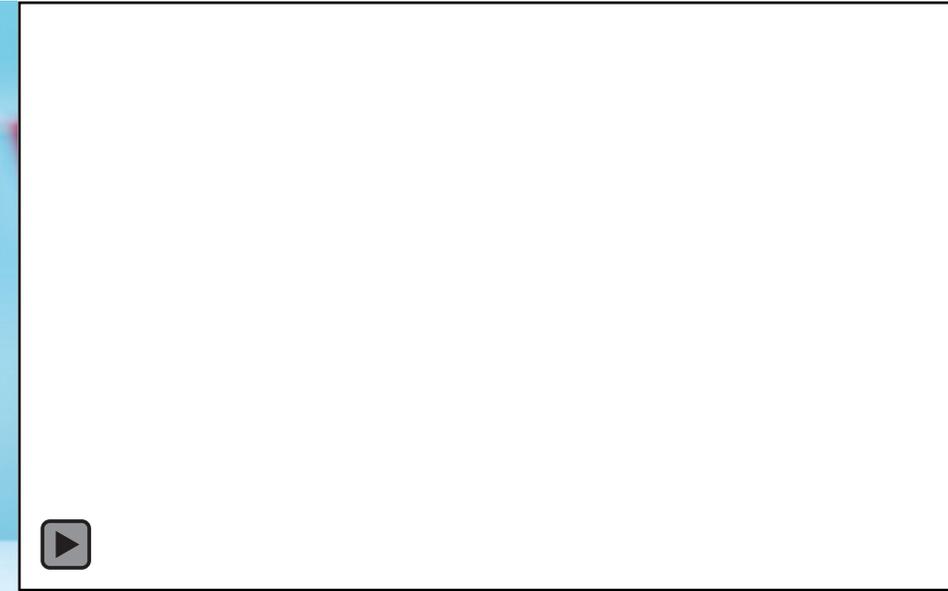
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Examples of Partnerships

COVID-19



NHS (UK)





Please reach out!

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