

The impacts

- General Impacts
 - Space robotics technologies developed under this topic are expected to increase the performance of space missions in a cost effective manner.
 - Synergies with terrestrial robotics would increase the sustainability of the European space sector at large.

The impacts

- Specific Impacts
 - Orbital
 - Enable multiple business cases not possible with current monolithic satellite systems
 - Seek for elaboration of business case
 - Foster rapid development and production on demand to reduce cost and time
 - Seek for elaboration on time and cost reduction
 - Setting technology standards for commercialisation of space (interfaces, building blocks etc.)
 - Planetary
 - Improve yield of planetary missions by providing 10x more science
 - Allow estimation of feasibility of planetary exploitation activities
 - Spin-out of space robotics technologies, e.g. autonomy, to terrestrial activities such as agriculture and mining.
 - Spin-in of terrestrial activities (e.g. automated waste handling) to the space robotics sector.

Conclusions

The SRC in Space Robotics Technologies answers the future necessities of Space 4.0 & next generation of smart space systems, supports competitiveness and enhance European strength in the global market.

It does so by bringing the necessary standardization to the sector, by developing experience and consensus over the application robots will play in next generation of smart space systems, and by demonstrating such application at significant scale.

The SRC implements these steps in the H2020 & FP9 programs: in H2020 development of the technologies and in FP9 final demonstration.

While the 2016 Call focused on standardization, definition, maturation and reducing cost and time of developments, the 2018 call shall address applications for orbitals robotics & planetary exploration as well as interaction with non space robotics.