



WRAP-UP & WAY FORWARD

**ESA Coordinator
EPIC Roadmapping Workshop
Stockholm, 12th February 2015**

Round Table Incremental Line Main Topics **EPIC**

- De-orbiting as application
- Down-select application and specific objectives for each technology (e.g. cathode-related developments for the HEMPT?)
- System/mission studies, importance of vision for the post 2020 needs.
- Results of prioritisation exercise.
- Alternative propellants need mentioned a number of times as a need, due to different reasons.
- Components > TRL 5, how they will be addressed in the 2016 projects.
- Cost competitiveness: an important need, reduction of an order of magnitude
- PPU autonomy vs. complexity and cost
- Need for decreasing length of developments < 10 years.

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Round Table Disruptive Line Main Topics

- Improving the roadmap, perhaps focusing on certain applications:
 - Constellations as one of the main applications for EP Micropropulsion
 - Think of possible markets for breakthrough technologies and/or new possibilities currently not even thought as such, which disruptive thrusters would enable.
- System studies discussion:
 - Consideration of the need e.g. assess quality and usability of study before embarking on it.
 - Timing: in first call vs. in second call
- Unusual roadmap, with no clear common starting/finishing points → enable flexibility to proposers to demonstrate where the technology can take us.
- Addressing the EP system instead of the thruster only (e.g. plasma interactions, etc).
- Alternative propellants: trend for the next 10 years.
- Need for sound concepts:
 - Include “disruptive” definition in call text
 - Proposals should include:
 - validation methods
 - what the expected disruption is, impact of the concept
- Transversal system concepts as real disruptive concepts:
 - PPU functions needs, cost, new materials.

Freedom of proposers

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1. ~120 participants over the 2 days
2. Lengthy, interesting and fruitful round tables
 - a. Variety of constructive contributions from both the panelists and the audience → **THANK YOU VERY MUCH**
3. A number of actions to be taken by the PSA:
 - a. Analyse all contributions and how they affect the Roadmap and/or the 2016 call text
 - b. Update EPIC deliverables as needed in a very limited timeframe → end of February delivery.
 - c. Reflect further on questions/contributions that could be addressed over time and not necessarily as part of the first SRC call text.

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