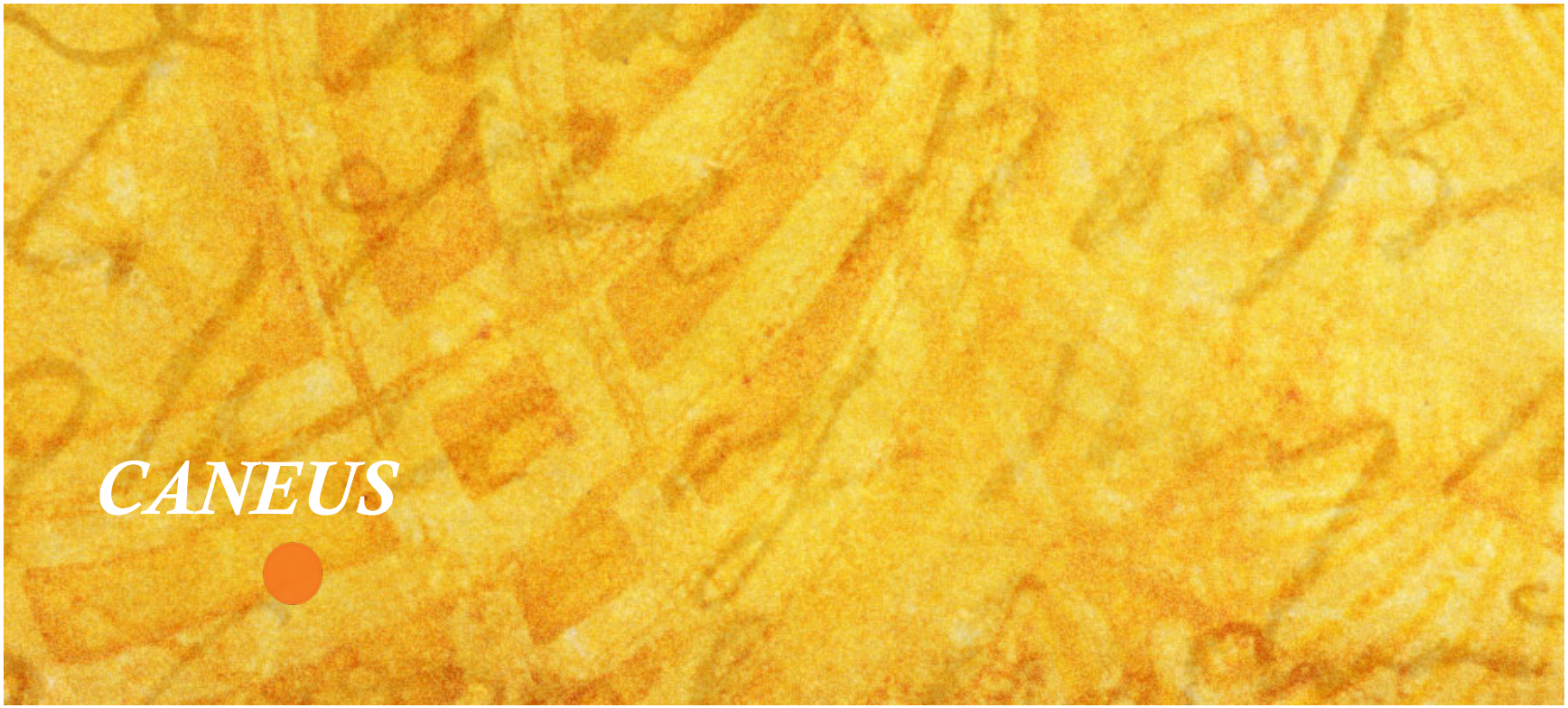
Devices Consortium

Friday.



Vision [5 years out]

- *The Devices Consortium will be viewed as a valued international resource with unique expertise not found within a single agency or country. The devices consortium will identify and develop aerospace and space ready solutions that blend the application of photonics, communication, sensors, and bioastronautics, while addressing stakeholder concerns for cost, size, weight, power, reliability, and performance.*

Mission [current status]

- *Focused on **aerospace and space applications**, the CANEUS Devices Consortium facilitates international cooperation and partnerships amongst stakeholders [end-users, industry and government customers, system integrators, technology developers, and universities]. **Illustrative enabling applications include vehicle, habitat, and human health monitoring; controls for communication, navigation, and guidance; active and flow controls, as well as external hazard detection**. The Consortium will provide evolutionary and revolutionary solutions that are **reliable, lower cost, smaller, faster, standardized, interoperable,** and that offer higher performance alternatives to what any individual organization could do on its own*

Goals

- Increase pace of technology maturation through development of common test procedures, and common standard interfaces that keep in mind a common endpoint for members from the international community.
- Be aware, synthesize, and then recommend international standards that apply to device integration and performance
- Assure that we have end-user requirements
- Promote innovative space applications rapidly and assure that we address the special requirements for development of such technologies

Goals

- Provide a context to begin the harmonization of roadmaps amongst global organizations that are investing significant resources in technology development
- Become an advocacy group for a CANEUS roadmap for the device consortium
- Develop and provide access to a common database where CANEUS capabilities, experiences, and lessons learned can be accessed
- Develop a matrix which identifies by application which technologies would be appropriate

Goal

- Share lessons learned regarding packaging and interfacing for space applications

Interest

- Interest in high speed optical communication. Free space, equipment to equipment, board to board, chip to chip links. If there are any common interests we would like to work together
- ….Please see Iain McKenzie from ESA

- Interest in talking with those who have applications where micro-propulsion capabilities could be used
- .. Please see Steven Chen NSPO