ADCSS 2019 Closing remarks

European Space Agency

Some Statistics

180 registered participants spread over 3 days

21 different countries (even China & Argentina)

53 presentations

15 boxes of cookies = 1125 cookies ☺

6 Exhibitors

ADCSS 2019 Proceedings

All presentations for ADCSS 2019 will be available at:

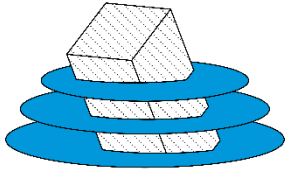adcss.esa.int (you will be redirected to the indico site)

Reminder:

- All material presented at the workshop is assumed to be cleared of any restrictions preventing it from being published on the ADCSS website.

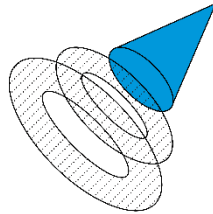Previous years ADCSS are also accessible on indico.esa.int

- Search with keyword ADCSS
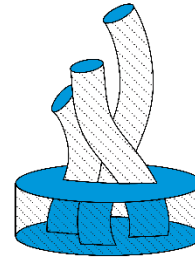
ESA Technology Development targets

1/3 REDUCTION IN BUILD TIME BY 2023

A 30% improvement of s/c development time by 2023. Fully digitise the workflow. Increased flexibility, scalability and adaptability based on modular space system designs.
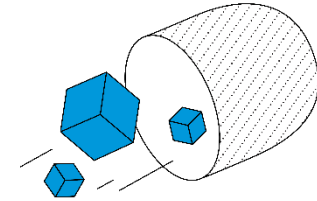
REDUCE SPACE COSTS BY A FACTOR OF TEN

allow end-to-end cost efficiency improvement by one order of magnitude to the user when considering space as a service.

INCREASE INNOVATION AND ADOPTION BY 30%

Double technologies demonstrated at TRL [8/9] per year by 2021. Reduce the time from TRL 4/5 to TRL 7/8 by 50%. Double the use of COTS in ESA spacecraft by 2021

BECOME SPACE-DEBRIS NEUTRAL BY 2030

We develop the technologies that allow us to leave the space environment to the next generation in better shape than we found it.

Can We Contribute to these Goals?

Reduce Build Time

- SAVOIR for elements to increase reuse

- MBSE to make V&V more efficient

Reduce Space Cost (Effectiveness)

- AI for more output for same investment

- COTS for lower cost at same performance

Increase Innovation and Adoption

- Demonstrating, piloting, training, workshops, addressing the painpoints

European Space Agency

Some impressions

European Space Agency

Thank you

Special Thanks to all participants and exhibitors

Session convenors

- Jean-Loup Terraillon (1st day, SAVOIR session)

- Marco Rovati (overall organisation and 2nd day)

- Marcel Verhoef, Benedicte Girouart, Massimo Casasco (3rd day)

Thanks to all presenters, exhibitors

- In partticular: Torbjörn Hult – Key note speaker

Special thanks to

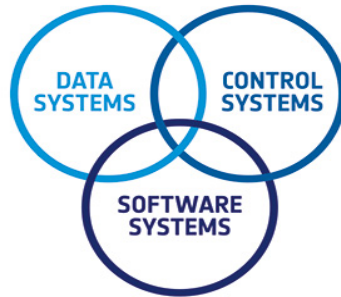- Kathleen Gerlo, Milena van Schendel and Monique Hansen-Daniel

Next ADCSS

14th Workshop on Avionics, Data, Control and Software Systems
~ ADCSS 2020 ~

20-22 October 2020 | ESA/ESTEC | The Netherlands

The Data Systems, Microelectronics &
Component Technology Division (TEC-ED)

GNC, AOCS & Pointing
Division (TEC-SA)

DATA SYSTEMS

CONTROL SYSTEMS

SOFTWARE SYSTEMS

Software Systems
Division (TEC-SW)