The QA/PA Role in the Service Transformation of ESAC Science Data Centre

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Starting point

(†††)

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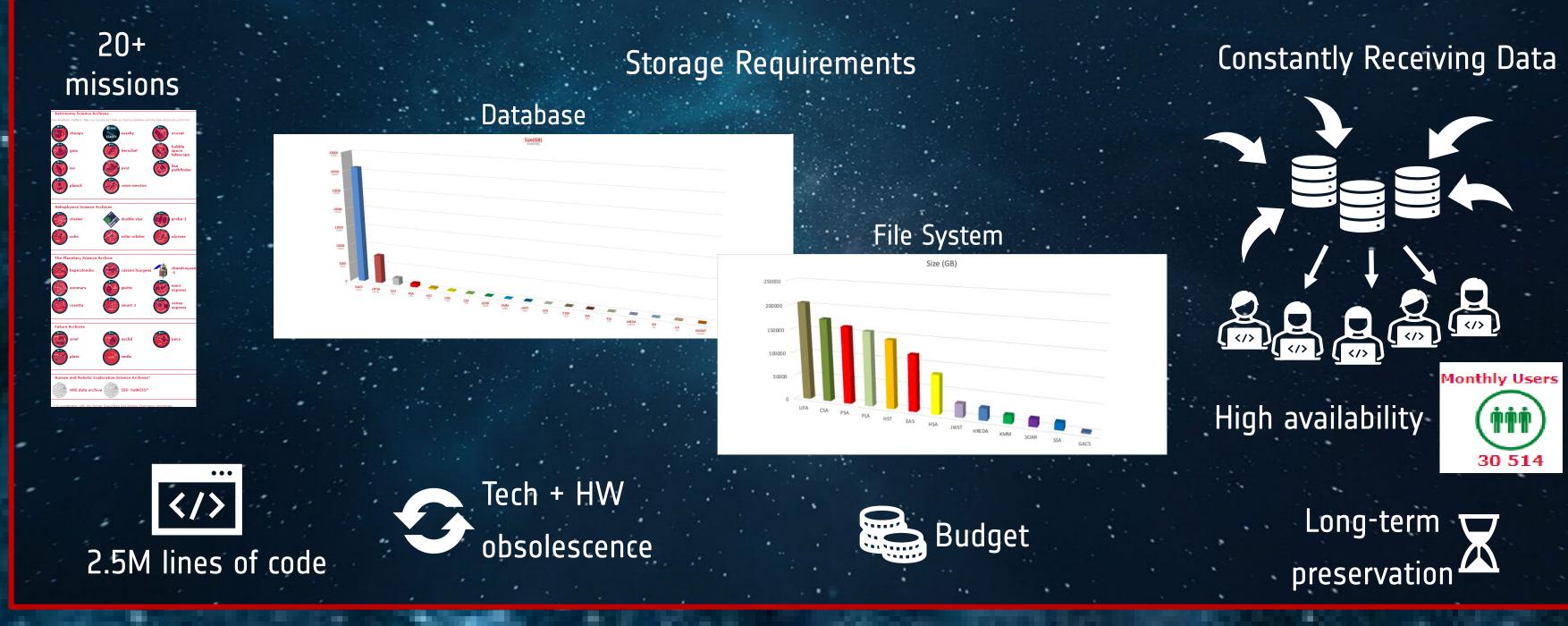
ESAC Science Data Centre (ESDC) main responsibilities are storing, preserving, and making available the data from all ESA missions to the scientific community. In the context of the ESA Frame Contract 2 (EFC2), RHEA Group and Aurora Technology are the service providers for SCO-08 area ("Archives and SPICE Software Development and Operations"). In the last two years there has been a significant transformation in the ESDC, and SCO-08 Product Assurance/Quality Assurance (PA/QA) has had a key role leading this process.

Prior to EFC2, there was little or no cohesion in the archives. Even some of the astronomy archives had no PA/QA. There was a so called "on demand" culture in the definition and evolution of the software involved.





ESDC commitment is to preserving data for the scientific community to use it





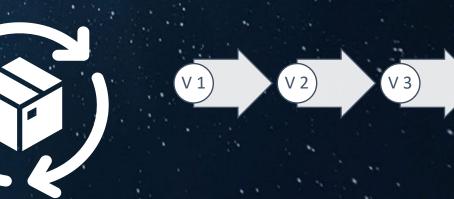
A long-term roadmap is needed, adopting an industrial approach:

Homogenization Standardization Cost reduction



Shared culture Lessons learned Focus on processes Frequent Releases





and AURORA for CESa

Overcoming Resistance to Change

Individuals and organizations need to adapt to new circumstances

From an ondemand "right now" model to

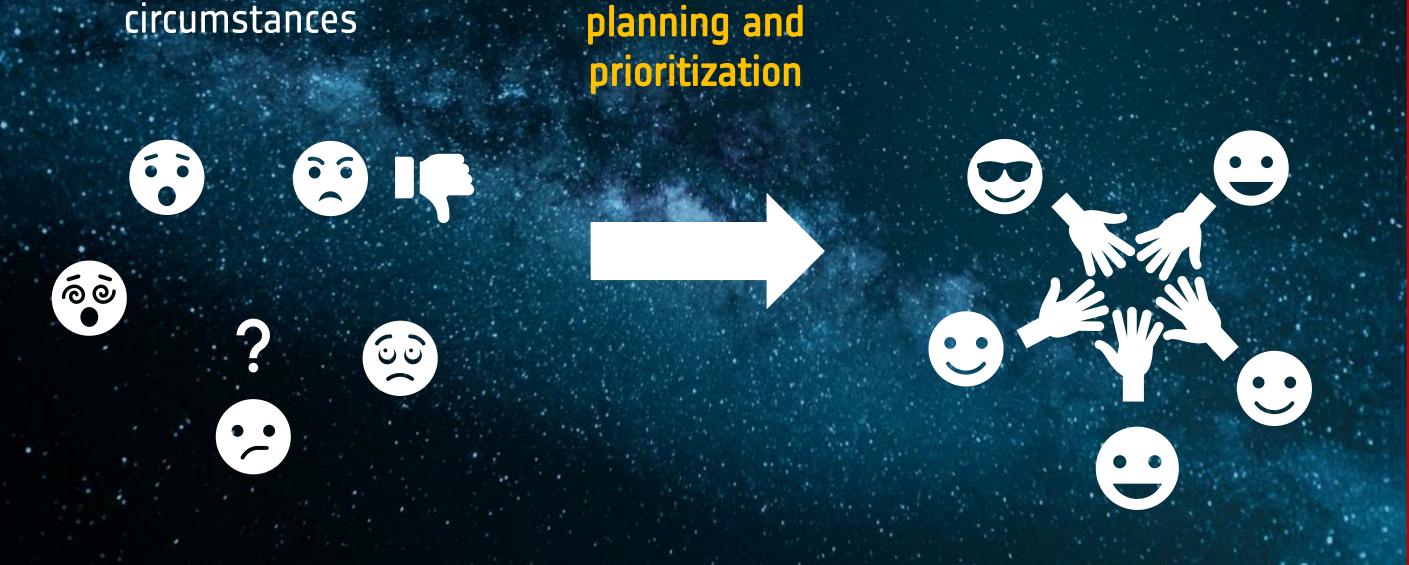
New clear roles and responsibilities

Boosting Quality

From initial requirements to software increment and documentation, quality must be at the core of all the processes:

Code

Early detection of

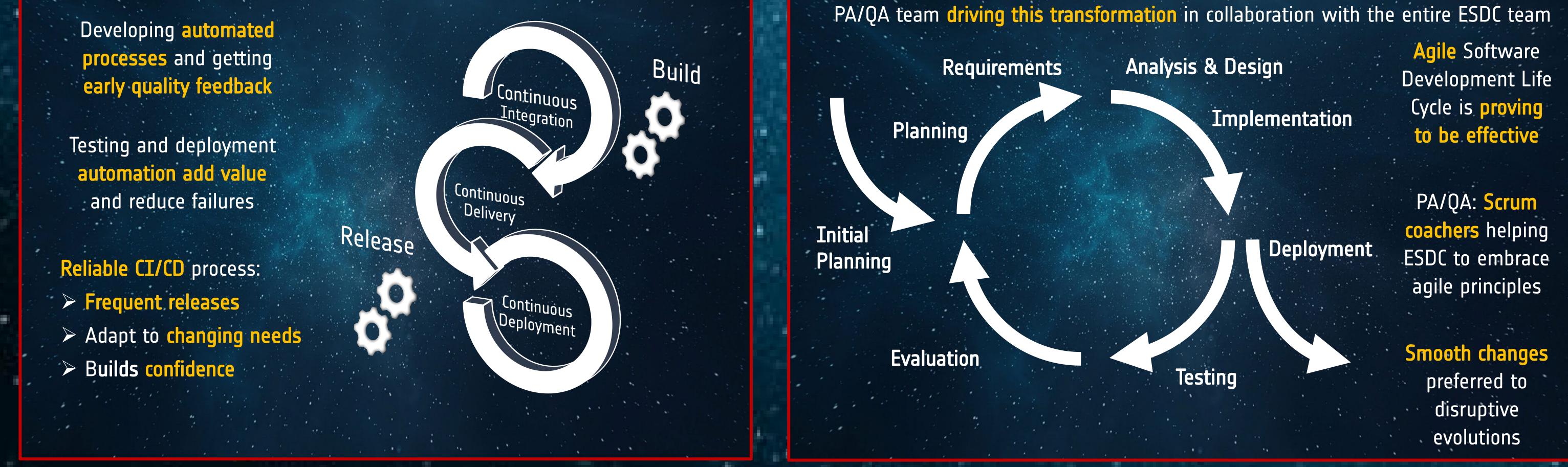




Stressing the Importance of Automation

processes and getting early quality feedback

automation add value and reduce failures



On the way to success!



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