

OVERVIEW OF SYSTEMS DESIGN

CDSSG 2015/16 task 2

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CONTEXT

- Ambition is to build an efficient system for Climate Data Record (CDR) production
 - Prepare the UK for efficient exploitation of full-mission Sentinel data (S3 in particular)
- Copernicus Climate Change Service (C3S) will fund operational CDR production
 - But these are to be procured as individual Essential Climate Variables
- We have the opportunity to lead on several C3S ECVs, and a significant shared asset in JASMIN-CEMS
 - No one project will resource the implementation of shared services to support efficient production of multiple CDRs

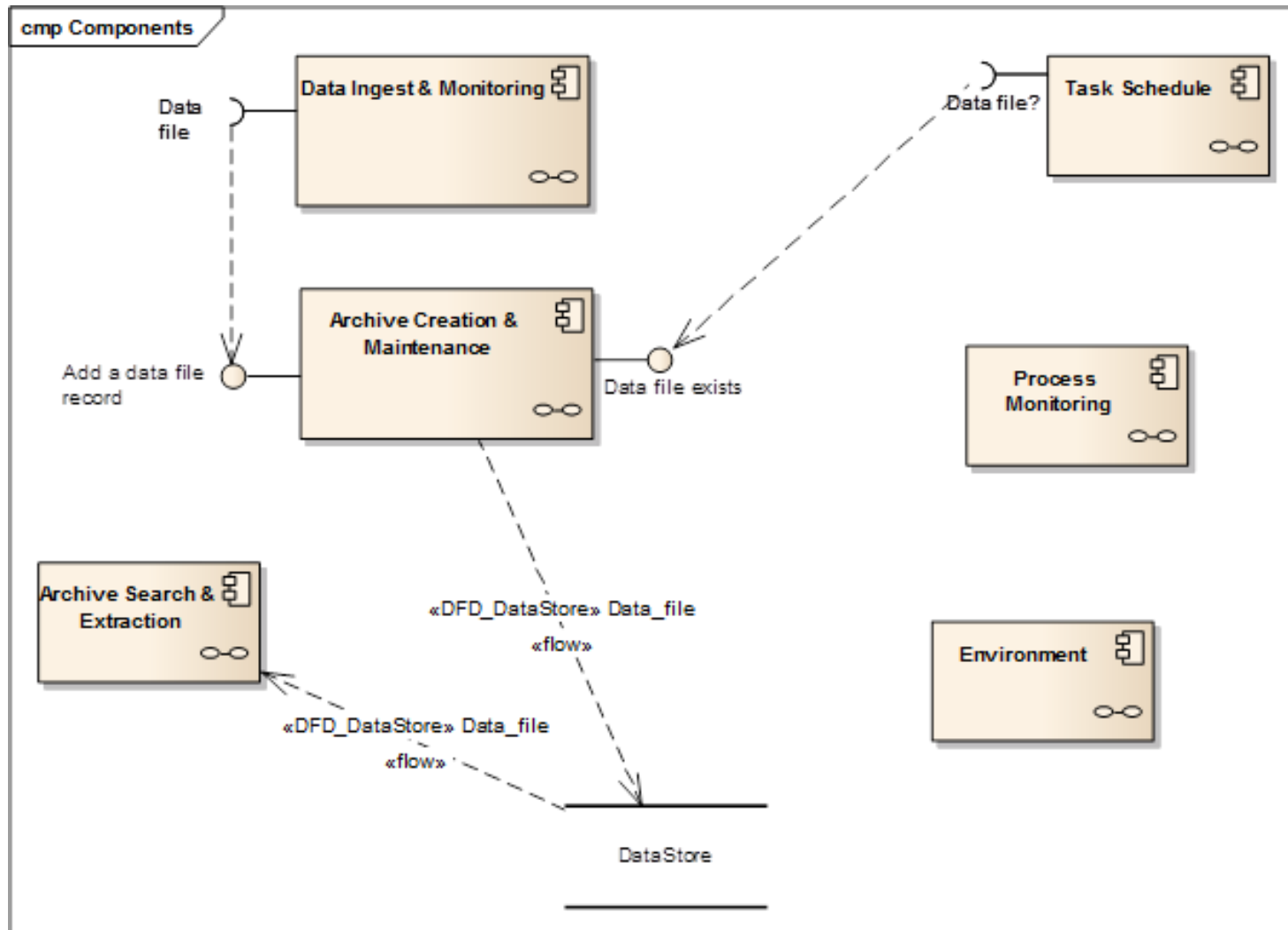
THIS WORK

- Define what could be implemented at JASMIN-CEMS to support a range of ECVs, leading to
 - shared benefits,
 - economies of scale,
 - more competitive tenders for each ECV.
- Allow ECV bids to focus on the work needed on the specific ECV processing chain to make it more robust and operations-ready

OUTPUTS

- Requirements document
 - Inputs and review from teams who submitted plans for trialling ECV production at JASMIN-CEMS:
 - SST, LST, Cloud and aerosol, Ozone
 - Also ocean colour and CO2 considered
- Systems design document
 - Includes description of actors/users, and a suite of detailed use cases
 - Provides input to costing exercise
- Full Enterprise Architect model available as a deliverable
 - Also recommended quality and management plans for any future implementation or trials
- Report on data licensing issues

INITIAL DESIGN COMPONENTS



The Institute for Environmental Analytics is a unique flagship centre, formed in January 2015 with £5.6m from the HEFCE Catalyst Fund and coordinated by the University of Reading.



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