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Engaging People

ALIGNED
Software and Data Engineering

Dacura workshop

Seshat Workshop 9th May 2015

Rob Brennan & Kevin Feeney

Trinity College Dublin
Coláiste na Tríonóide, Baile Átha Cliath
The University of Dublin
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This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 644055.

Agenda

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9.00 - 9.30 Session 1 - Dacura Development Context - the ALIGNED Project (Rob)

9.30 - 10.30 Session 2 - Dacura-Seshat Integration Plan (Kevin)

10.30 - 10.45 Coffee

10.45 - 12.45 Session 3 - Seshat Data-model (Kevin)

12.45 - 13.30 Lunch

13.30 - 14.30 Session 4 - Plans for rollout of RDF in Seshat (Rob)

14.30 - 14. 45 Coffee

14.45 - 15.45 Session 5 - Codebook/Seshat Update Processes (Rob)

15.45 - 16.00 Workshop wrap-up (Peter Turchin)

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Dacura Development Context – the ALIGNED Project

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Key Facts - ALIGNED

Estimate: 1.3 - 2.5m€ for Seshat activities

- A **3-year, 4m€** H2020 Research and Innovation project (action)
  - 1 Feb 2015 – 31 Jan 2018
- Funded in EC LEIT (Leadership in Enabling and Industrial Technologies) program
  - Call: ICT 9 – 2014: Tools and Methods for Software Development
  - ALIGNED proposal scored 13.5 of 15
  - **One of 8 projects selected from 75 submissions** to this call
- Overseen by the EC "Software & Services, Cloud" unit,
- **Website**: www.aligned-project.eu
- **Project number**: 644055

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Goals

- New methodology for parallel software and data engineering of web-scale information systems.
  - Linked Data the unifying foundation for system specification, process and tool integration.
  - Extend model-driven software engineering techniques to encapsulate shared models of aligned co-evolving software and data lifecycles.
  - The data lifecycle will support automated testing, runtime data quality analytics, model-generated [data] extraction and human curation interfaces.

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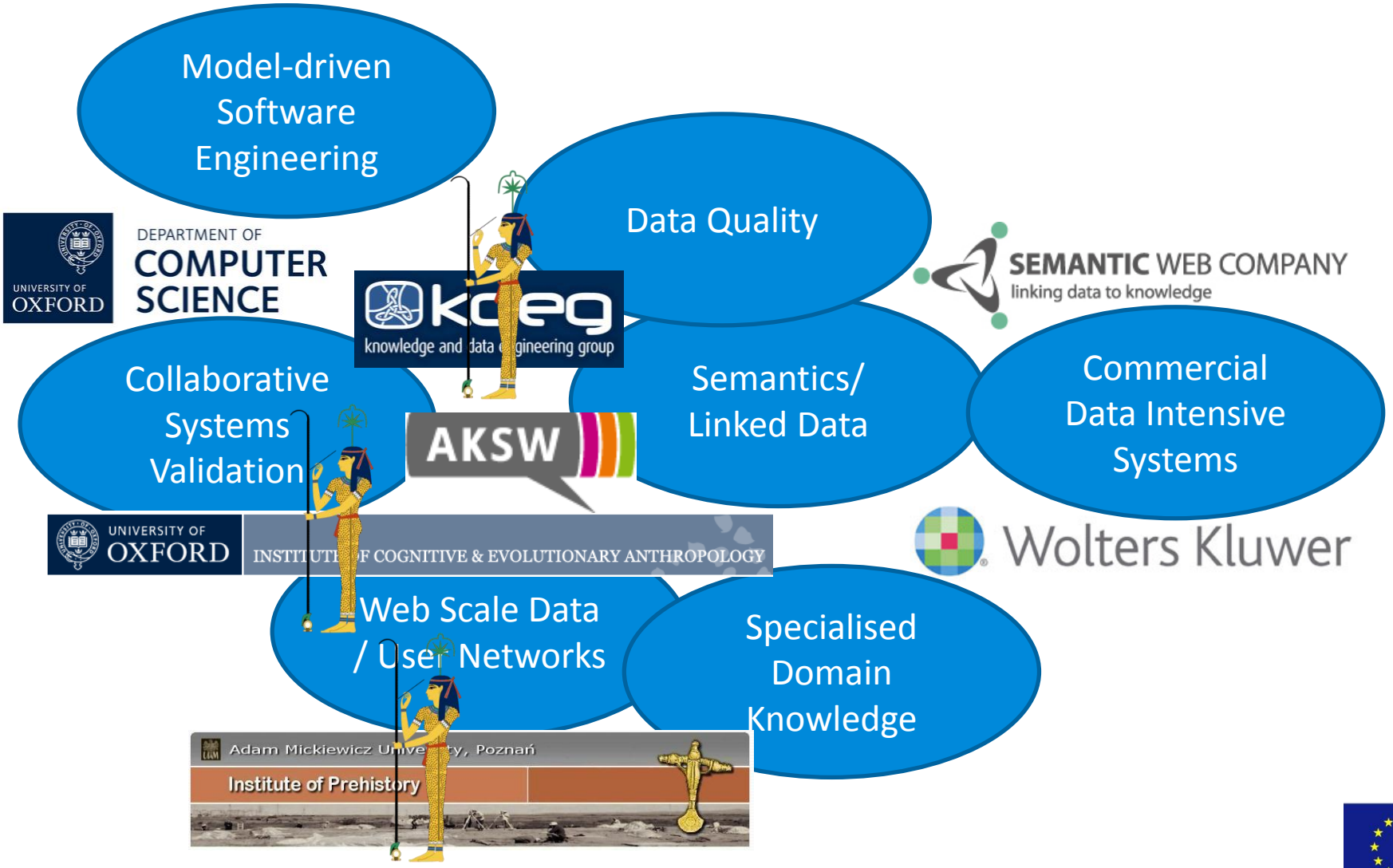
Competency-based view of Partners



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ALIGNED/Seshat Team

- TCD
  - Rob Brennan (50% co-fund by ADAPT centre)
  - Kevin Feeney (50% co-fund by ADAPT centre)
  - Gavin Mendel-Gleason (PD)
  - Bojan Bozic (PD)
  - Odhran Gavin (RA)
- Oxford Anthropology
  - Harvey Whitehouse
  - Pieter Francois
  - 1 PD
  - Part-time RAs
- Poznan
  - Arek Marciniak
  - 1 PD

Oxford Computer Science
Jim Davies
James Welch
Jeremy Gibbons
Monika Solanki (PD)
Seyyed Shah (PD)

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Christian Dirschl

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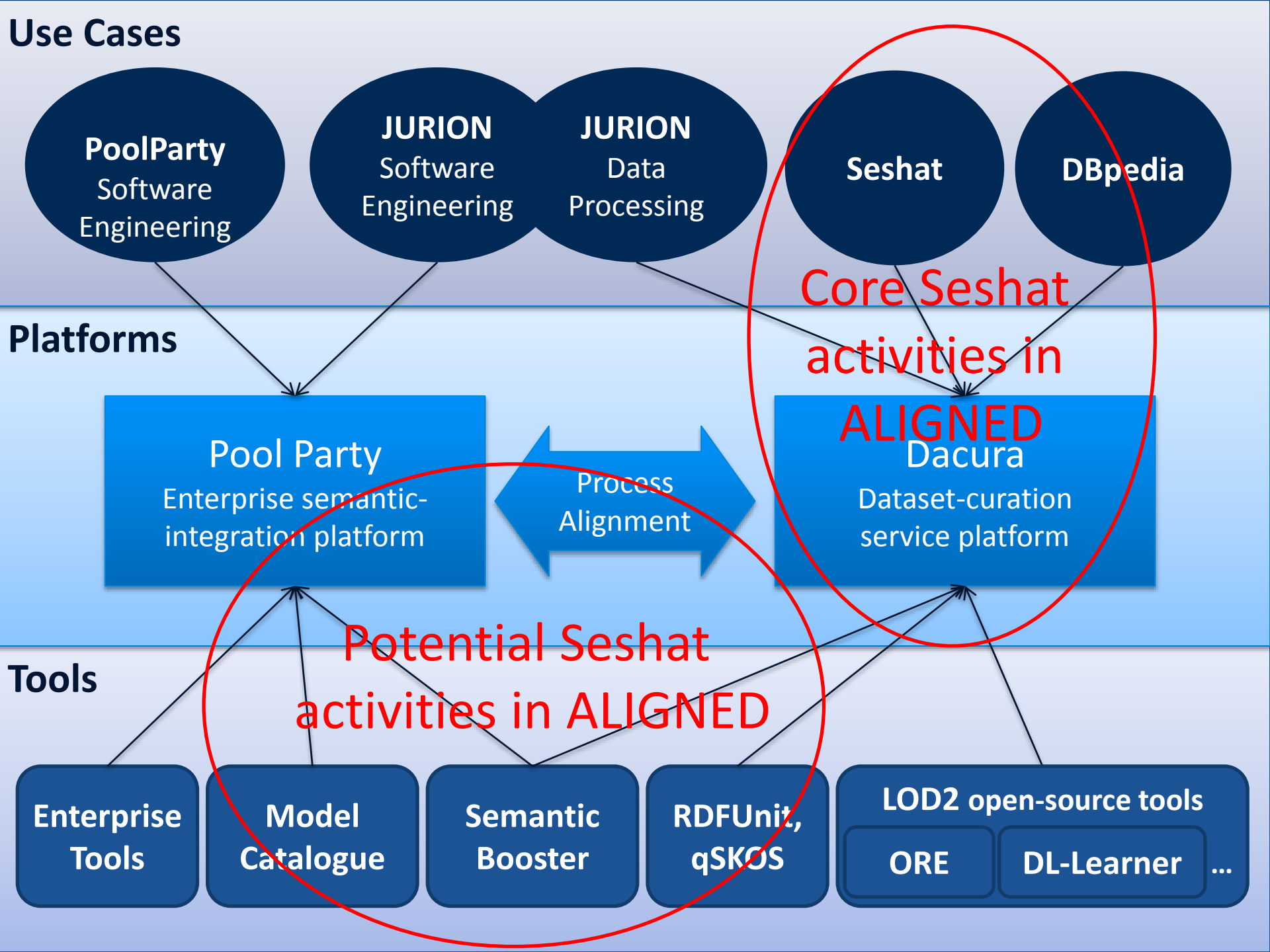
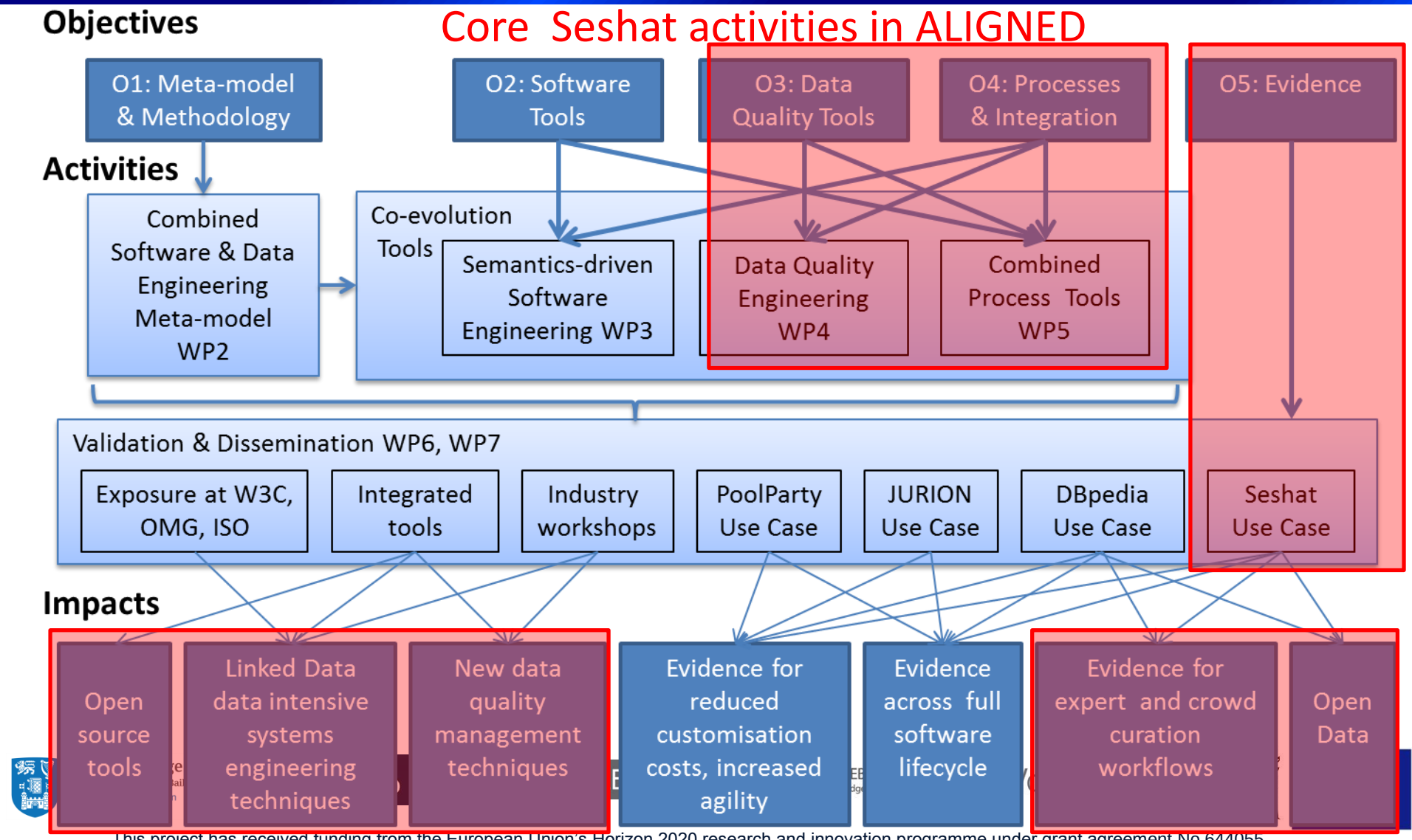

Use Cases
PoolParty
Software
Engineering
JURION
Software
Engineering
JURION
Data
Processing
Seshat
DBpedia
Core Seshat
activities in
ALIGNED
Platforms
Pool Party
Enterprise semantic-
integration platform
Process
Alignment
Dacura
Dataset-curation
service platform
Potential Seshat
activities in ALIGNED
Tools
Enterprise
Tools
Model
Catalogue
Semantic
Booster
RDFUnit,
qSKOS
LOD2 open-source tools
ORE
DL-Learner
...

Project Overview



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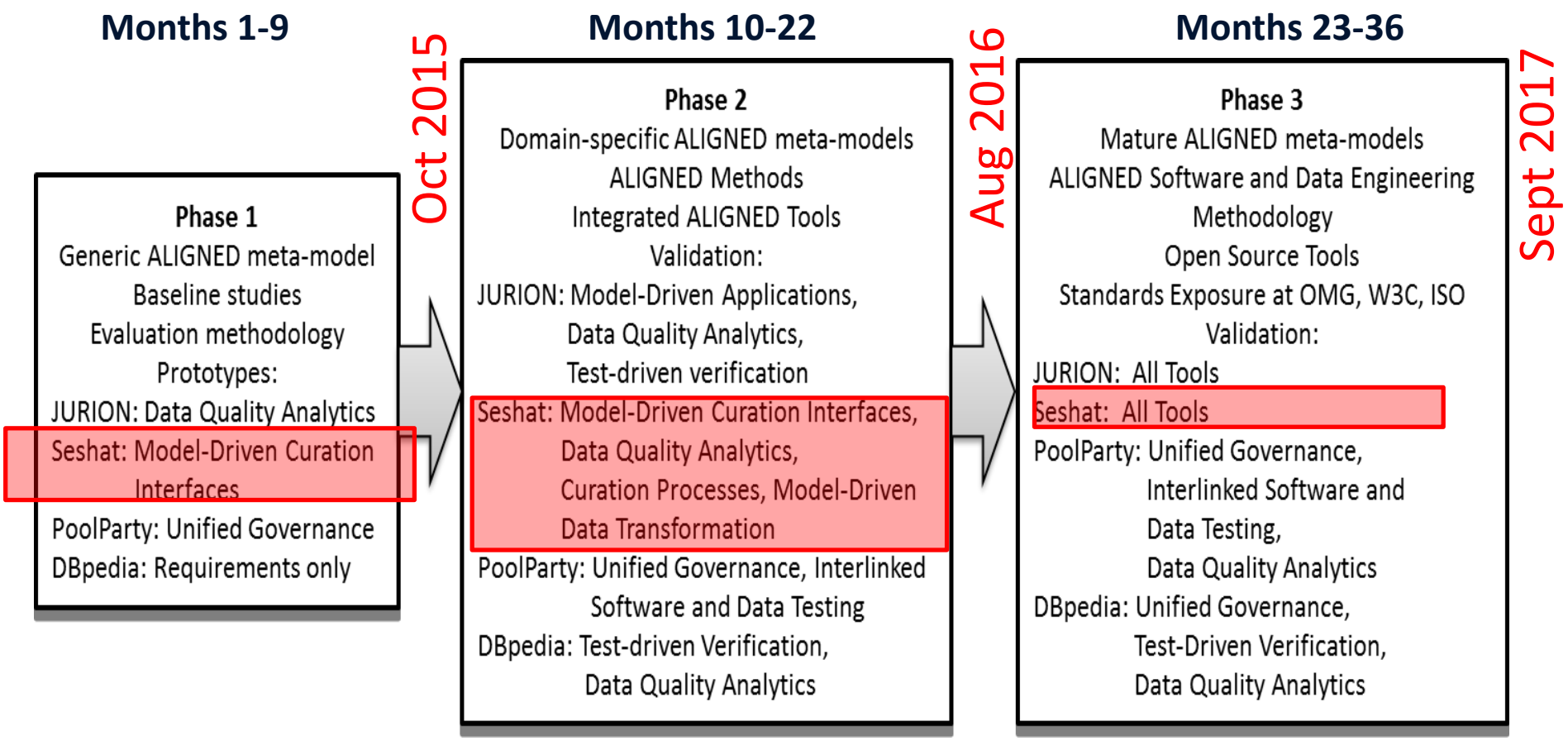
Project Structure



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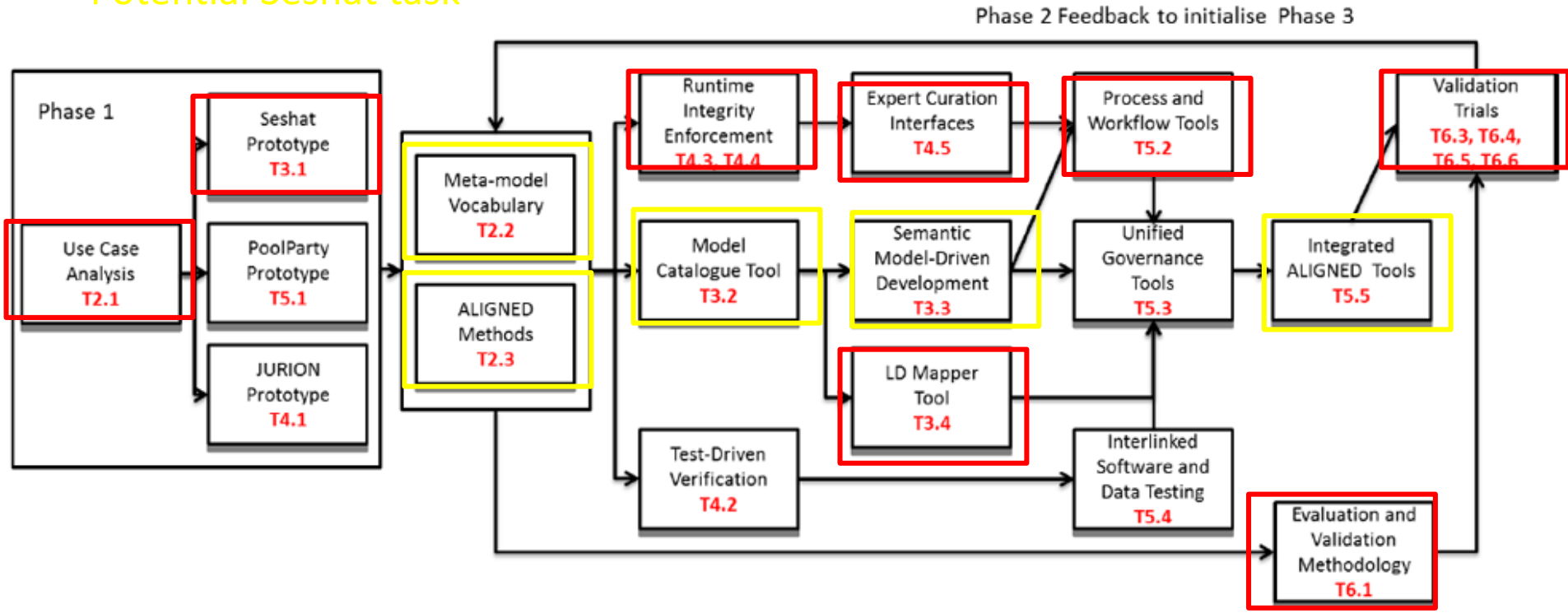
Project Tasks

Core Seshat task

Potential Seshat task



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The bad news - Workplan

- ALIGNED proposal promised a schedule of 67 deliverables
  - 36 Distinct Deliverables
  - 30 Further Deliverable Iterations
  - 1 Pseudo-Deliverable (QA Review)
- We are contractually bound to produce these deliverables for EC
- 1.81 official deliverables per month is significant overhead!

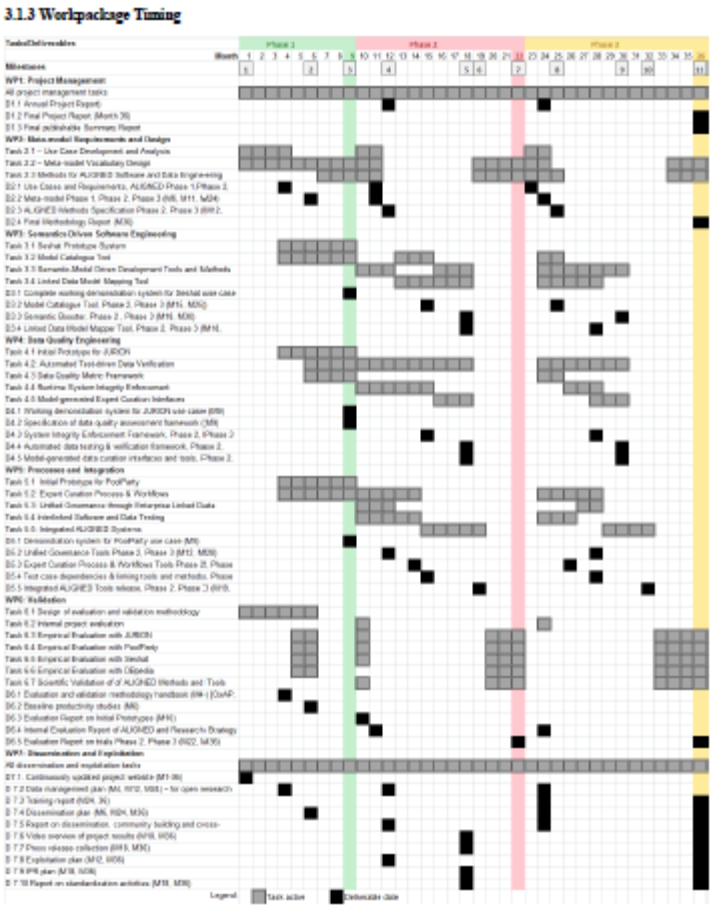

Figure 3.3 Workplan Phases, Tasks and Deliverables

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Summary

- TCD manage ALIGNED project
  - 30-55% of ALIGNED resources /activities are for Seshat
- ALIGNED is funding
  - TCD Dacura system development in 3 releases:
  - 2015: RDF pilot, RA-based data collection, Data quality controls, Schema (codebook) management
  - 2016: Live RDF system, domain expert interfaces, DBpedia harvesting, system administration/productivity management
  - 2017: Depends on progress
  - Seshat Data collection at Oxford/Poznan
  - Oxford Computer Scientists who will (hopefully) help with tools for (1) developing Dacura faster (2) data management
  - Open data publication

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- Thanks!

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