

Workplan

There are a set of recurring milestones:

Administration:

1. Annual co-located Conference **(C)** provisionally booked for September with quarterly events prior
2. Monthly get-togethers for tomography as well as quarterly Developers' Workshops
3. Formal Working Group **(WG)** meetings that alternate with informal versions – continues quarterly

Software releases **(4,5,6,7)**:

4. Main framework code completed by month 18
5. Releases for the three integrated toolkits components
Software releases (major one planned for each year)
6. Release versions for lab based systems occurring each 18 months
7. Release versions suitable for users of national facility x-ray and neutron/muon dataflow framework occurring each 18 months

Networking Items:

8. Supporting in management and license servers for software and regular training course
Including training courses for CCPForge use and SSI guidelines
9. Distribution of a formal regular newsletter to improve level of communication on website

As well as major successful collaborations entries: aimed at one per core toolkit developer per year to write user guides and integrate CCPi code into **(CE)**;

10. Specialist lab based machine reconstruction consortium to be linked with
11. Integrated Neutron Tomography (Mantid dataflow)
12. Integrated Diamond Light Source (DAWN dataflow)
13. Integrated with PET reconstruction code (STIR)
14. Collaboration with UK BoneJ (quantification toolkit) integration
15. Collaboration with UK RooTrak (quantification toolkit) integration

Industrial and international integration projects to be completed **(TSB/HIP)**:

16. Three projects via TSB or HIP funds on years 2, 4 and 5

Month	Year 1					Year 2					Year 3				Year 4			Year 5		
	3	6	9	12	15	18	21	24	27	30	33	36	39	42	45	48	51	54	57	60
Administration - 0.1FTE	(C)	(WG)		(WG)	(C)	(WG)		(WG)	(C)	(WG)		(WG)	(C)	(WG)		(WG)	(C)	(WG)		(WG)
Software Releases - 1.0FTE					(5)	(4)	(6,7)		(5)			(4)	(5,6,7)				(4,5)			(6,7)
Networking Items - 0.1FTE: continuation of current monthly and quarterly events, plus formal e-newsletter and levels of software carpentry training																				
Collaborations & Integrations - 1.0FTE	(CE)	(CE)				(CE)	(CE)	(TSB/HIP)		(CE)	(CE)			(CE)	(CE)	(TSB/HIP)		(CE)	(CE)	(TSB/HIP)

See also mid-term and end of grant critical success factors (section 10)

1.1 Lower funding scenario

(See justification of resources)

Were the **core support to be reduced** from 2.2 to 1.5 FTE then we would only be able to support software developments relating to 3D analysis of x-ray images (and other types of 3D data) and we will not be able to construct completely our pre-processing and reconstruction toolkit. The estimated community and training numbers would also have to reduce by 30% to account for the lower core team support. Further the implementation of a Phi/GPU based reconstruction platform which would greatly speed up image reconstruction would not be possible under a reduced funding commitment.

An alternative means of saving manpower costs that would not lead to a loss of outputs would be to combine certain roles with a related proposed CCP notably CCP_PETMR (Synergistic PET-MR Reconstruction; Dr Kris Thielemans, UCL) with whom we have already had some discussions. We are already proposing to share some meetings and activities. Were the two CCPs run side by side it would be possible to achieve a reduction of 0.5 FTE (0.25 FTE per CCP) across the two bids, by combining some of the core SCD/STFC administration and basic development roles.