DARE UK (Data and Analytics Research Environments UK)

DARE UK Interest Group (IG) Charter Template

Name of proposed Interest Group: BESTIES (BEST practice for research ImagES)

The WHY

Introduction:

Assembling multi-modal data for studies can be complex; a task made more difficult when trying to perform federated analysis due to the variety of technical setups amongst TREs, the increasing size of the repositories and variability of the images. To go beyond merely accessing images, we must now look at quality and usability of the images and pipelines themselves to provide the greatest accuracy and reliability.

The NHS considers all patient data, regardless of how it is collected or the original format, to be in the category of sensitive data. This Interest Group (IG) aligns with the DARE UK mission by proposing to assess the quality of both Trusted Research Environment (TRE) infrastructure and images used for research.

Due to several TREs, and other research centres, having developed an imaging pipeline, providing a collaborative space for this community will enable the IG to address identified challenges and foster a creative space for these issues to be tackled. This will result in enhanced TRE imaging pipelines and research.

User scenario(s) or use case(s) the IG wishes to address:

The WHAT

Objectives:

The group will focus on best practices and techniques for practical issues of developing an imaging pipeline and surfacing images in an appropriate manner for research; such as assessing images for quality, appropriate metadata and storage and retrieval; for example, exploration of algorithms and automation of tasks.

We envisage that discussion will surface new areas of interest to explore in terms of best practice and overcoming practical issues.

This group aligns with the strategic themes of Data and Discovery, Capability and Capacity and Core Federation Services with the following broad objectives;

1. Engagement and Collaboration
   - Identify further stakeholders and members of the public who will be interested in participating in developing and achieving IG objectives through utilising the networks already included in the IG and identifying further networks and bodies of potential participants as the group progresses;
   - Encourage collaboration and inclusion through facilitation of workshops and networking opportunities;
   - Use facilitated discussion workshops to tease out deeper and more detailed opinions on practical issues faced by the TRE community and researchers with regards to imaging data

2. Develop Areas for Focused Exploration

- Formulate a plan for developing specific working groups, focusing on areas of greatest interest. These could be because participants see these areas as particular current problems or blockers or because they envisage issues in future;
- Organise the documentation of the discussions and make them publicly available;
- Select one initial area of interest and develop best practice recommendations (BPR)

Outcomes:

The ultimate aim is to develop a series of BPR for preparing and surfacing imaging data for research which can then be adopted by TREs.

The short-term outcomes for this IG will be:

1. Generate ideas from participant discussions for areas of focus
2. Create at least one working group
3. Develop at least one BPR
4. Produce a report on the analysis of work package outputs and recommendations for areas to develop best practice recommendations and test in future workstreams

The long term aims for this IG will be:

1. To develop WGs which will explore further areas for focus. The WGs will conduct deeper explorations of the issues and how they should be addressed.
2. Use the outputs from the WGs to generate best practice recommendations.

The HOW

Participation/Collaboration:

Participation will be open to anyone who has been involved in the building or management of an imaging pipeline for research, used images for research or who manages a research TRE (for example, from the TRE Community). There will also be members of the public recruited via existing public panels who have an interest in using imaging for health data research. Rather than isolated public consultations and conversations, this IG will embed public members into each meeting and workshop, to include their questions and insights on an ongoing basis as full group members.

Mechanism:

The IG will convene at least on a monthly basis. A high-level agenda will be formed to maintain progress; however, discussions will be open and free flowing to encourage and foster collaboration. A member will be appointed as a project manager to follow-up on actions, track progress and maintain documentation.

Potential members: [Including a minimum of two proposed chairs and all members who have expressed interest]

FIRST NAME	LAST NAME	EMAIL	(Co-)Chair / Member
Claire	MacDonald	claire.macdonald3@mft.nhs.uk	Co-chair
Anthony	Wilson	anthony.wilson@mft.nhs.uk	Co-chair

Steve	Sweeney	stevedsweeney@gmail.com	Co-chair
Katie	Wilde	k.wilde@abdn.ac.uk,	Member
Steve	Harris	steve.harris@ucl.ac.uk	Member
Nicholas	Payne	np520@medschl.cam.ac.uk	Member
Michael	Mallaburn	Michael.mallaburn@mft.nhs.uk	Member
Michael	Smith	Michael.smith@mft.nhs.uk	Member

* Note, please do not hesitate to point out gaps in the current DARE UK set of strategic themes and/or recommendations that the programme should consider as it continues to evolve these. Community feedback and input is welcomed.