2016 April 12, Imaging panel meeting
(Anders, Fredrik, Dina, Zdenek, Innokenty, Joerg, Steve, Rajmund)

1. Define the scope of the panel
2. Sketch an agenda for the next 6 months
3. ?

scope:

Coordinate imaging activities at Max IV (list of activities in annex)
1. propose data standards (HDF5,?)
2. assure best software practices (implementation and development of reconstruction and analysis tools)
3. lobby for imaging (advice on hiring people)
4. Coordinate equipment purchases / sharing (detectors, sample environments)
5. community development (who does what?, organise Imaging Day
6. outreach (school, workshops)
7. run imaging internal wiki
8. Activate a complete spectrum of useful imaging methods at Max IV
9. Identify and formulate the needs of imaging at Max IV

Panel structure
coordinator: Steve
sub-coordinators:
   tomographic reconstruction: Fredrik
   coherent (phase) reconstruction: Dina
   image analysis: Anders
   sample support & environment: Joerg
   standard communicating channels (wiki): Zdenek
   Funding, Grants (budget): Rajmund
   outreach / events: Inno

agenda 2016:

- May 20 9-12: Imaging panel meeting: who is doing what? Grants, software, hardware (short 10 min overview of relevant activities)
- Max IV imaging day: September 12-20 (think about venue, theme)
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- identify issues that are common for more beamlines and formulate requests
- coordinate data analysis practices / keep each other updated
- coordinate the use of equipment that is not in daily operation and makes sense to share
- organize Max IV imaging day (1-2 each year)
- gather (establish a database) of materials to present all aspects of imaging at Max IV
- report relevant issues from various events like conferences / workshops
- establish an internal wiki
- propose standards (HDF5,)

themes for next meetings:
compatibility of sample holders, tomographic reconstruction tools, data quantification tools,   nanoimaging capabilities

how big part is image analysis?

activities:
experimental (acqusition, sample environment) -
software (processing) - list of people and which software is available, set up an environment to emulate the data from beamlines, standards,

tomography: nanomax (last in priority because of complexity - mid 2017), SoftiMax (>2018), DanMAX (end 2018), MedMAX (>2019), iMax(>2020)

sample environment: portability across beamlines

sample preparation lab (SEM, microscopes)

DTU has some tomographic tools, aim is to define a platform for implementation of various tools.
NANOMAX has signed a PostDoc for implementing CDI reconstruction

SARDANA is saving in a NEXUS H5 format, if we do not define something we will get this.

ORGANISATION of the panel: define responsible for: tomographic reconstruction,

Using a virtual machine