PMD Strategy Resourcing 2016

## Strategic Aims (5 year strategy)

Key:

Red There is a problem here

Amber This requires discussion

Green This is resourced and on plan

Black This is not resourced this year

1. Technique specific user interfaces
2. Stability: Refactoring user interfaces to improve testability
3. Geometry redesign & implement
4. Interoperability: Make it easier for instrument scientists in getting data to/from Mantid to other programs
5. Algorithm naming: Too many available algorithms, few of them core, some duplicated, consistency of naming algorithms
6. Utilization of distributed and heterogeneous computing environments
7. Mantid connecting to advanced analysis and modelling
8. Advanced Visualization
9. Experiment Steering
10. Workspace types to more efficiently reflect the science
11. Units redesign & implement
12. User centric documentation
13. Mantid as a SciPy styled python package  
    Decide what this means (some suggestions below)
    1. Improving the interface to access data and create workspaces in Python
    2. Defining a Core set of functions
    3. Changing framework from a python wrapped package to python package with c++ innards
14. Separating UI:
    1. Separation of Instrument view from Mantidplot
    2. Separating UI: Separation of Visual fitting from Mantidplot
    3. Separating UI: Separate code to support better packaging (e.g. mantid, mantid-gui)
    4. Separating UI: Rework installers to support sub projects

## Widespread Aims:

1. Absorption for generic geometries Improve UI, handling can materials etc
2. Multiple Scattering for generic geometries
3. Better structured approach to calibration
4. Fix and Speed up project saving
5. Stability: Re-implementing technique ui’s to improve standardization & testabilty

## Tactical tasks:

There are 131 high level tasks prioritized into High, Medium and Low detailed in the spreadsheet below, at present it appears we will be able to tackle most of the High priorities and s few scattered medium priority tasks. Any changes to the priorities above will of course alter this.

<https://docs.google.com/spreadsheets/d/1vjZ-vQpwa4FehvVHEPo8IXFbI8T1JMzfAWQ0xOsUrqM/pubhtml>