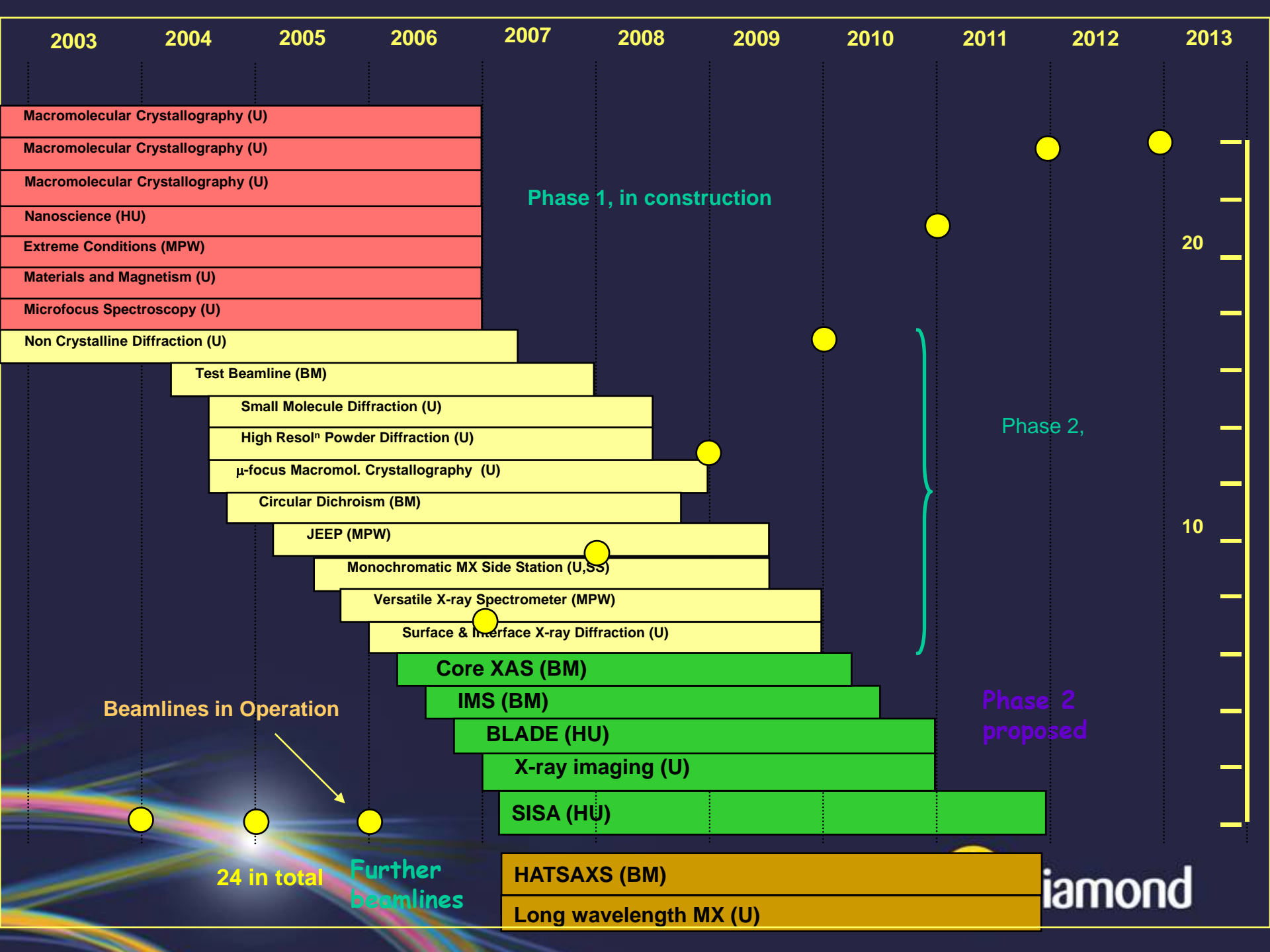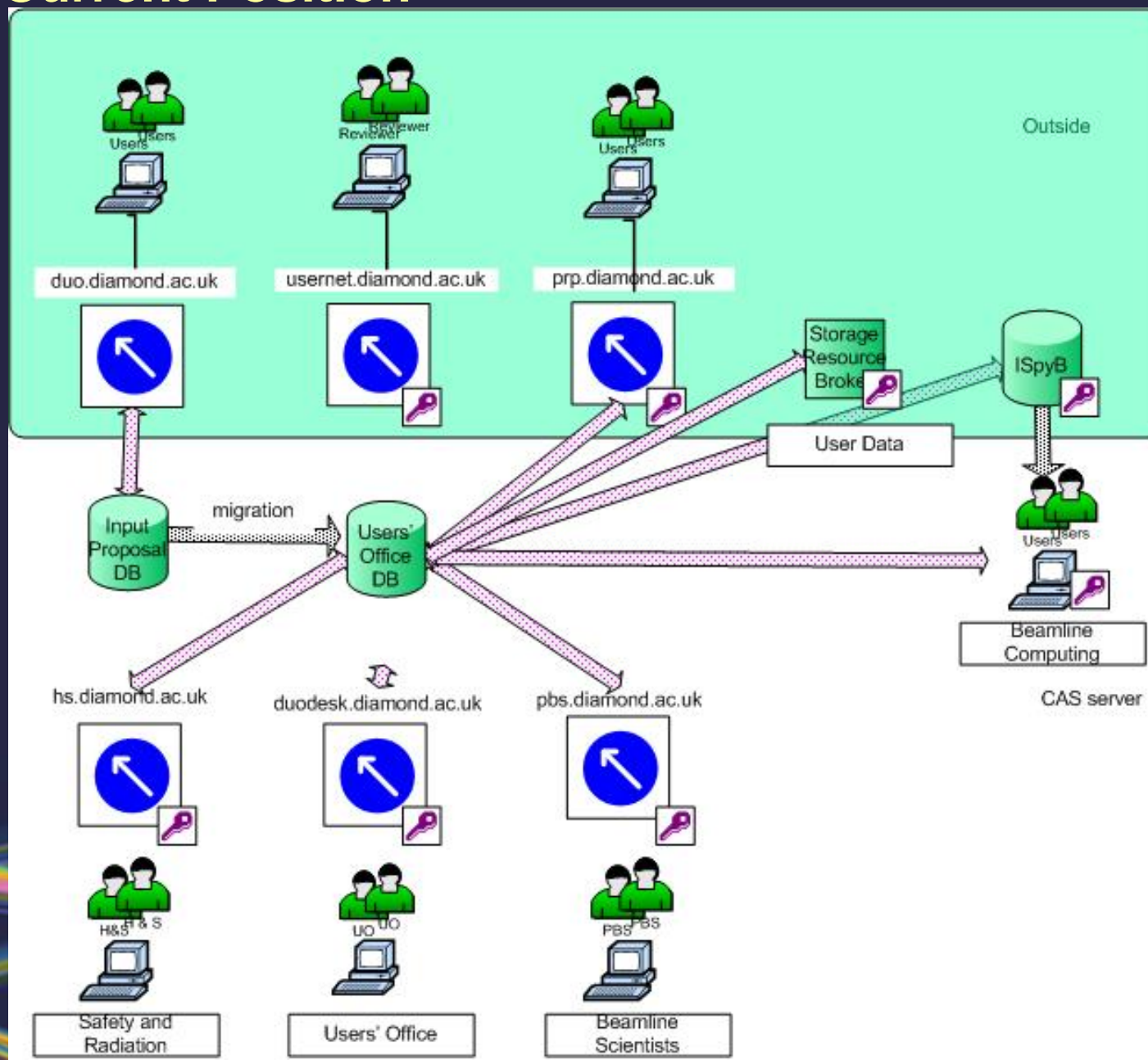**Plan**

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Now

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Diamond Constraints

- Up to 32 beamlines each covering a different area of scientific research.

- More than 1000 scientific proposals accepted per year with varying durations, some as short as 8 hours.

- Typically more than 3000 different scientific users will access the facility in one year.

- Possibly up to 1000 Terabytes of data collected per year in more than 10,000,000 files.

- These data files will need to be catalogued and accessed remotely.

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Current Position
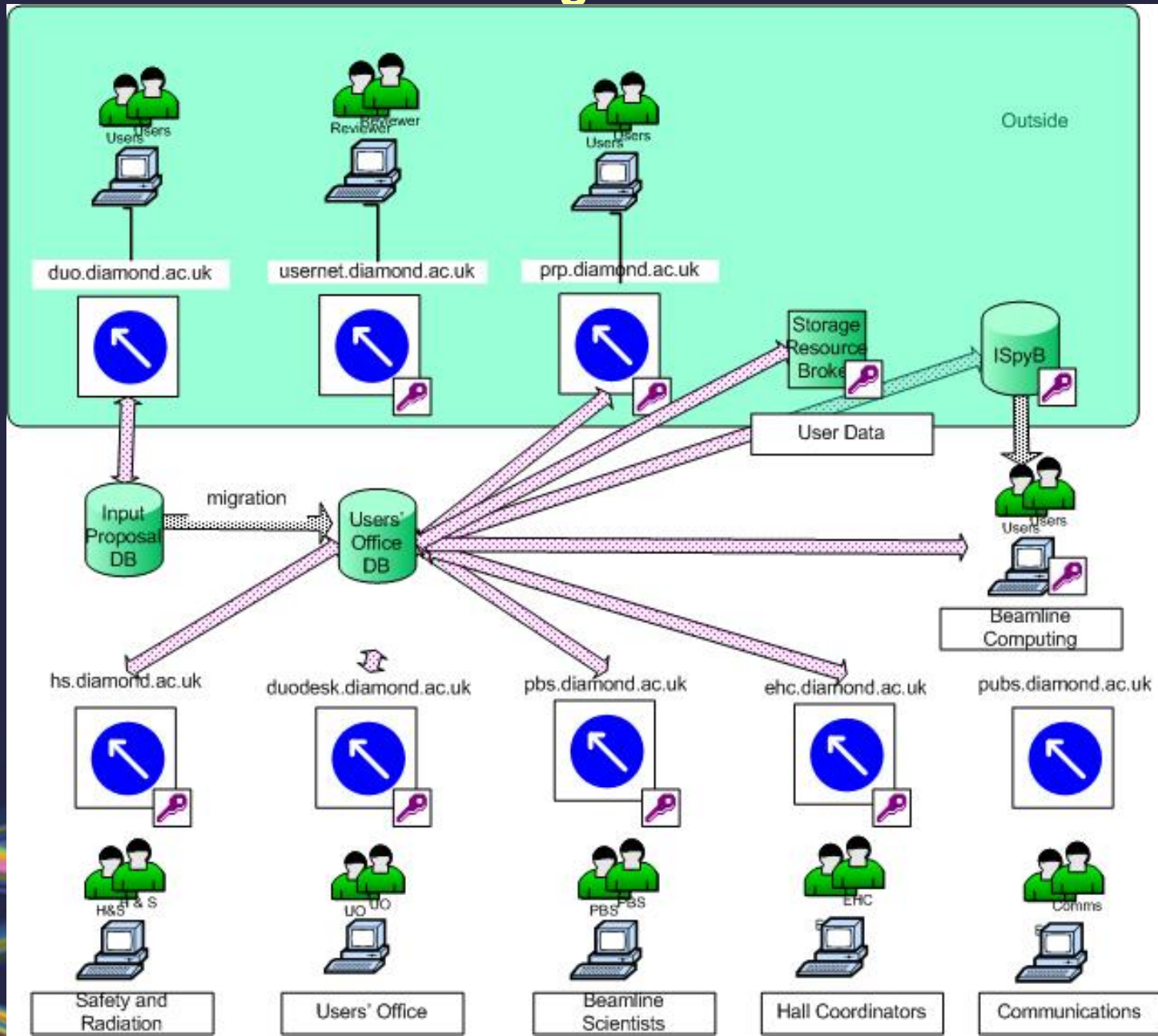
User Proposal Submission

duops – http://duops.diamond.ac.uk/proposal

- Authentication by user's email address
- User can edit own profile
- User creates new directly or copies old proposals
- Add proposal support and scientific cases as pdf files
- Edit and add experimental details
- Download/upload sample details for up to 30 samples
- Invites proposal participants

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Administration System 1 - Duodesk

- Authentication using Active Directory (VAS, CAS)
- Authorization based on Active Directory roles
- Create new or edit new proposals
- Create/edit user and establishment details
- Modify or add proposal details such as participants or change beamlines
- Allocate time
- Schedule proposals to beamlines
- Administer users on site – travel and subsistence, production of HID authorization entry cards
- Data automatically extracted to set up beamline accounts
- Database information automatically incorporated into files acquired on the associated beamlines and placed into ICAT.

Administration System 2 - Duodesk

- Authentication using Active Directory (VAS, CAS)
- Authorization based on Active Directory roles
- Administration views for Health safety and radiation protection
- Administration views for Review panels
- Administration views for Beamline staff – (soon)
- Administration views for goods inward and Experimental Hall Coordinators
- Interaction with ISpyb

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Technologies duops and duodesk

Duops

- Collaboration with ISIS but with large modifications
- ejb2, oracle, struts I, jdeveloper, jboss 4.3
- Allows upload of pdf proposal and science cases
- Upload/download of up to 30 Excel sample sheets

Duodesk

- Initially collaboration with ESRF but now large modifications
- Initially ejb2 but now mainly ejb3, struts II, oracle, eclipse, jboss 4.3
- Allows upload of pdf proposal ,science cases and Excel files
- Increasing integration with Magnolia.

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Single Sign On

1.   The aim of this project was to provide a mechanism for uniquely identifying users of UK large scientific facilities irrespective of their method of access.

2.   All users of the major facilities will need only one username/password combination to access any of the facilities.

3.   These credentials or an automatically generated certificate or token will allow access to any computing technology given the correct authorization.

4.   The authorization will be performed locally by the facility involved based on the single unique identifier derived from 1-3.

5.   Partners: STFC, e-Science, SRS, ISIS, Diamond

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Future Developments

- Increased ease of use
- Extend User reports
- Implement user configurable home pages after login
- Extend web pages to beamline scientists, EHCs, health and safety etc using more flexible technologies such as Mognolia
- Integrate both duops and duodesk applications into all web sites at Diamond both internal and external
- Hostel bookings (depends on remote system)

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