AstroGrid Project
AstroGrid-3 Lifetime Project Plan (AG3-LPP)

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(A) Introduction

This is the top-level **Lifetime Project Plan (LPP)** for the AstroGrid-3 project. Once agreed, it remains fixed within the two year lifetime of the project. Guided by this long term framework, a firmer but still top-level **Cycle Plan** is made at the beginning of each six month cycle. Within each cycle, the Project Manager produces a **Detailed Project Plan**.

The original AstroGrid project began in late 2001, with a second phase "AstroGrid-2" project beginning in 2005. In late 2006 a proposal was made to PPARC to fund an *Operational VO Service for the UK* using AstroGrid software. This was funded for an initial period of two years, to begin *deployment and operations*, with a further review on long term funding expected during 2008-9. This initial two-year period is informally known as "AstroGrid-3".

The LPP consists of several parts :

(A) Introduction
(B) Vision and Goals
(C) Methodology
(D) Work Areas
(E) Project Roadmap
(F) Leadership, Management and Governance
(G) International Obligations
(H) Staffing Plan
(I) Budget Plan

This is the public version of the Plan, with simplified and non-confidential versions of parts H and I, the staffing and budget plans. More detailed and confidential versions of parts H and I are held separately. This plan sets out general goals, principles, and working methods; concrete details are held elsewhere.

(B) Vision and Goals

The **Virtual Observatory Vision** is one of transparency - that all the world's astronomical data should feel as if it is sitting on your desktop, ready to find, access, and manipulate. Wherever the data may be, and whoever is responsible for it, the software tools you have are able to understand it and analyse it. The VO is not a monolithic system, but, like the Web, a set of standards which make all the components of the system interoperable - data and metadata standards, agreed protocols and methods, and standardised mix-and-match software components. These standards and software modules constitute the VO Framework. To achieve the whole vision, however, data centres, tools writers, and facility builders will all work within this framework.

The **AstroGrid Vision** is to provide both a generic infrastructure for the world and a specific deployment for UK astronomy. AstroGrid is committed to the open framework approach for the VO. The first part of the AstroGrid vision is to build the *infrastructure* that will make this possible. As well as open standards, this means specific software components which implement those standards. We aim to make our infrastructure available worldwide, by constructing software components that are mix-and-match, and as far as possible plug-and-play, so that they can easily be used with other products from around the world. We therefore aim to build to a high standard of software engineering and documentation. The second part of the AstroGrid vision is to deliver a working system of daily use to UK astronomers. To achieve this, we will deploy our own infrastructure components at data centres in the UK, work with our colleagues at those data centres, and will integrate tools and applications emerging from the UK and elsewhere.

At the end of the AstroGrid-2 project, a first version of the software infrastructure suite is essentially complete; we have been running an incrementally improving prototype deployed service for two years; a number of compliant tools have been constructed by third parties; and a considerable number of IVOA compliant data services have become available. AstroGrid is therefore ready to begin an operational service.

The **Top-Level AstroGrid-3 Goals** are therefore :

- to create a first fully-working VO service for UK astronomers
- to continue to refresh and enhance the AstroGrid software and service
- to prepare for long term service operations

To achieve these goals, AstroGrid-3 will carry out these **Key Tasks** :

- complete testing and debugging of all infrastructure software
- work with the data centres to ensure "VO readiness" of all the key datasets
- deploy all the key datasets through our "Data Set Access (DSA)" software
- set up new MySpace disk storage and processing power to run VO services
- deploy "core" VO services at the six main sites
- help University Departments across the UK to install "local" VO services
- set up thorough documentation
- set up and run a Help Desk system for astronomers
- run a training and support programme for astronomers
- run a series of competitive "Science Calls" to develop new tools
- maintain and upgrade the software
- assess and test new technologies, to keep refreshing the infrastructure
- continue working on international standards through the IVOA
- establish metrics for monitoring use and plan for future capacity
- continue to improve and enhance infrastructure.components and the User Interface

Note : the specific infrastructure components, core services, deployed datasets, and so forth are specified in the AG3 Deployment Plan and other detailed documentation.

(C) Methodology

Project methodology remains essentially the same as in AstroGrid-2.

Planning and Development Philosophy. AstroGrid uses an agile but goal driven development philosophy. Iterative flexibility in both goal setting and development is becoming standard industry practice. It is particularly important in the VO world because the external environment (W3, industry, and IVOA) is evolving fast and somewhat unpredictably, and because user requirements change as they get used to the new software. We publish a *Lifetime Project Plan* (this document); we use six month *Planning Cycles* at which we set public goals and deliverables; and within a Cycle the Project Manager develops a *Detailed Project Plan* which can evolve rapidly and flexibly.

Collaborative Open Project working. AstroGrid maintains as much collaborative working as possible, through the team editable web pages using the Plone content management system; through the continuing use of the AstroGrid *Twiki*, through the use of Jabber, and through physical meetings. We are not an *open source* project in the sense of allowing any outsiders to contribute code; but we are an *open project* in that everything we do is visible from the outside, all source code is available, and we exchange code and ideas freely with related projects.

Engineering Standards. AstroGrid intends its software components to be used by external projects. They therefore need to be constructed and documented to product standards. The software is not a monolithic system, but a series of components. These components inter-operate with components from other VO projects, and other e-Science projects. This requires compliance with IVOA and W3C standards as well as engineering standards of robustness and reliability. (We will of course be pro-active in defining IVOA standards.) Our components are intended to be plug-and-play and also mix-and-match.

Operational Service Standards. As we move into operations, we will likewise adopt professional standards in our relations with both users and resource providers. The service provided to users will be robust, reliable, comprehensible, well documented, and of fast enough performance to be of value in daily work. A helpdesk system will supplement the documentation. Metrics will be established in order to monitor success and plan for the future. We will not guarantee 24/7 performance, but aim to come close. With resource providers worldwide we will establish a good working relationship, but will also provide extensive technical documentation. For key resource providers in the UK (including departmental system managers) we will establish close working relationships, and where appropriate formal Service Level Agreements. Note that operations is continuous but we still maintain six month cycles for work planning purposes.

(D) Work Areas

Work is planned within the following *work areas* :

A0 Leadership, Co-ordination and Management

- A0.1 Leadership and Policy
- A0.2 Management

A1 User Support

- A1.1 Help Desk
- A1.2 Science Engagement
- A1.3 Science Calls

A2 VO Service Operations

- A2.1 Technical Support
- A2.2 Deployment
- A2.3 Technical Engagement
- A2.4 VO-enabling Data Sets

A3 VO Engineering

- A3.1 Maintenance
- A3.2 Code Enhancement
- A3.3 Release Packaging

A4 VO New Technology

- A4.1 IVOA Standards
- A4.2 New technology

Note that formally Work Area A4 is unfunded. The review of the 2006 proposal declined to provide support for this area, as the priority is to provide an operational service. However we cannot cease work completely in this area, or AstroGrid will be uncompetitive in a year and dead in three. We will therefore use a necessary minimum of effort in this area. This resource problem is a significant risk for the project, which will be reflected in the Risk Register.

(E) Project Roadmap

Here we list **key milestones** for the project. A detailed calendar, including events planned for related projects such as VOTECH and AIDA, is maintained in a shared calendar which is currently implemented using the Google Calendar system - the AstroGrid Calendar. The Appendix to this plan has a text list of calendar events as of 2007-10-11.

Key milestones

M01	2008	Jan 01	Project Start
M02	2008	Jan 15	Beta Release of VO Desktop
M03	2008	Feb 01	AIDA project start
M04	2008	Feb 25	Phase-1 Deployment starts (consortium core services)
M05	2008	Mar 03	Critical Service Review-1
M06	2008	Mar 31	VO Desktop Release
M07	2008	May 21	IVOA Spring Interop
M08	2008	Jun 03	User workshop-1
M09	2008	Aug 25	Resource Providers Workshop-2
M10	2008	Sep 04	Phase-2 Deployment starts (DC services outwith consortium)
M11	2008	Oct 01	Likely UKVO proposal submission
M12	2008	Nov 17	New Technology Report
M13	2008	Dec 31	VOTECH project end
M14	2009	Jan 05	Revised Long Term Project Plan (LPP) issued
M15	2009	Jan 19	User Workshop-2
M16	2009	Feb 23	Critical Service Review-2
M17	2009	Mar 02	Resource Providers Workshop-2
M18	2009	Apr 06	Significant New User Release
M19	2009	May 19	IVOA Spring Interop
M20	2009	Jun 01	UKVO planning phase starts
M21	2009	Aug 03	Demo at IAU General Assembly, Brazil
M22	2009	Sep 03	Phase-3 Deployment starts (Enhanced DC services)
M23	2009	Dec 08	Conclude UKVO planning phase
M24	2010	Jan 01	UKVO long term operations start

(F) Leadership, Management and Governance

The AstroGrid Board (AB)

The AstroGrid Board (AB) is the ultimate authority. It is the successor to the "AGLI" used in AG1 and AG2. It defines top level policy, takes decisions on resource allocation, and is ultimately responsible for the strategic direction of the project. It also provides oversight and guidance. For AG3, the AB will meet once every two months, usually by telecon. Each AB meeting will receive a brief report from each of the PL, PM, and PS, and a brief report from each participating institution. Every three meetings (i.e. once every six months) will be a finance meeting, with reports on expenditure and commitments from each of the constituent grants. A list of AB members and records of meetings are kept online on the AstroGrid wiki.

The AstroGrid Board Members are :

Bristol	Mark Birkinshaw	Cambridge	Richard McMahon
RAL	Peter Allan	RAL	Ian McCrea (solar lead)
Edinburgh	Andy Lawrence	Leicester	Mike Watson
Manchester	Simon Garrington	MSSL	Len Culhane

AstroGrid Associates

A number of scientists across the UK are closely involved with AstroGrid, but are not formally members of the AstroGrid Board. These Associates have access to AB documentation except for confidential items and have a standing invitation to project meetings. The current list is :

Edinburgh	Bob Mann
UCL	Ofer Lahav
Portsmouth	Bob Nichol
Exeter	Tim Naylor
Leeds	Ken Brodlie

The AstroGrid Management Team (AGMT)

Strategic direction and planning is developed by the management team for approval by the AB. The management team is responsible for producing the six-monthly Cycle Plan and seeing that it is implemented; for producing material for STFC; and for liasing with external partners and projects. They report bi-monthly to the AB.

Project Leader	Andy Lawrence
Project Manager	Keith Noddle
Project Scientist	Nic Walton
AB reps	Mike Watson, Richard McMahon

The **Project Leader**, assisted by the AB reps, has overall responsibility for project policy and delivery, acting on behalf of the AB from day to day. Assisted by the Project Manager

The **Project Manager** has responsibility for the definition of AstroGrid product, the strategic technical development of AstroGrid, financial control, and overall planning. (Financial planning assistance is provided by a part time project administrator in Edinburgh.) He plans and oversees the work of all engineers and scientists on the team. By agreement with local line managers, the Project Manager has direct control over individual staff members, rather than working through local

workpackage managers.

The **Project Scientist** is the main liaison point with the astronomical community, has prime responsibility for the support of astronomers using the operational system, and by advising the Project Manager works to see that the system delivers science capability. The Project Scientist takes the lead on planning and implementing the marketing of AstroGrid through for example demos, talks and workshops.

The **AstroGrid Advisory Group (AGAG)** is a body set up and run by AstroGrid to provide independent community advice on whether AstroGrid is meeting its goal of delivering a working system that delivers science facility. The prime purpose is advice on science requirements and assessment of performance as seen by end-users, but it also provides advice on technical requirements for Data Centres and Departments on implementation of services. The AGAG therefore contains mostly active research astronomers, supplemented by some data centre staff, and local system administrators. It meets once every six months. (Note : this is an enhanced version of the original AG Science Advisory Group. The other AG2 body, the "AGDAG" will be closed down - we need a close relationship with resource providers, not just an occasional committee.)

Formal external oversight for the funding agency, STFC, is provided by the **AstroGrid Oversight Committee (AGOC)**, a committee set up and run by STFC. This contains a mixture of astronomers, computer scientists, and members of other e-Science projects. It monitors progress against the Lifetime Plan and each Cycle Plan; oversees the expenditure of the project; receives reports from the AGAG; and requests any paperwork it sees as necessary to assess the state of the project.

Financial Resource allocation is relatively simple, as our costs are dominated by the staff salary component, which has been essentially decided up front at the beginning of the project. Expenditure is then undertaken through a portfolio of separate grants. Grant holders report on expenditure and committment to the AB twice a year. However, if it seems necessary, the Project Manager may propose to the AB a redistribution of funds; if the AB agrees, we will ask for our constituent grants to be re-announced as necessary. For travel and equipment, each institution holds a local budget, but travel is only by the approval of the PM. If institutional spend rates differ for good reasons, we will arrange fund transfer as necessary.

Staff Effort resource allocation is under the control of the Project Manager, but is monitored by the AGMT. Note that WPs are not allocated to institutions; the project works as a single distributed team. For planning purposes, we have an initial expected allocation of tasks to individuals (see Appendix A); but from cycle to cycle the PM allocates staff effort flexibly as required. For each cycle, the PM will allocate staff time to tasks within each of the four substantive work areas (A1 to A4). This will effectively make within any one cycle four **Internal Staff Teams** - Support Team, Operations Team, Engineering Team, and R&D Team - but note that these teams can change from one cycle to another, and any one individual may be in more than one team.

(G) International Obligations

AstroGrid interacts with a wide range of Virtual Observatory and e-Science stakeholders worldwide, for example playing a key role in setting up and running an Astro Research Group within the Open Grid Forum. However we have specific formal obligations in two main areas : with the International Virtual Observatory Alliance (IVOA), and with our Euro-VO partners, through formal funded projects.

International Virtual Observatory Alliance (IVOA)

The IVOA has two main functions - it is the key international forum for exchange of ideas and technology within the VO arena, and develops international standards for the VO, through a series of working groups, and twice yearly *Interoperability Workshops*. (Standards are subsequently endorsed through IAU Commission 5). The AstroGrid Project Leader is a member of the IVOA Executive, and the AstroGrid Project Scientist acts as the secretary to the Executive. The AstroGrid project maintains membership of all IVOA working groups, which is of crucial technical importance. At any one time we are also usually providing the chair or vice chair of at least one working group, which means that we have a formal obligation to the IVOA. In the past we have provided the chair of the Registry Group, and the Grid and Web Services Group. Currently (November 2007) we provide :

Data Access Layer	Chair	Keith Noddle
Applications	Vice Chair	Mark Taylor
Data Model	Vice Chair	Anita Richards
Grid and Web Services	Vice Chair	Paul Harrison

Euro-VO

The European Virtual Observatory (Euro-VO) partnership originally comprised the core partners in the FP5 AVO project - AstroGrid, ESO, ESA, and CDS - but has now expanded to include a much larger and flexible list of European institutions committed to collaboration in the VO area. During 2006 a formal MOU was developed by eight European organisations and national agencies - ESO, ESA, INAF, INSU, INTA, Max Planck, NOVA, and PPARC. This commits these partners to general principles and intentions but not to specific projects or funding. The Implementation Plan includes a small Euro-VO Executive, a Euro-VO Science Advisory Committee (VOSAC), and three distributed virtual organisations - the VO Facility Centre (VOFC), the VO Technology Centre (VOTC), and the VO Data Centre Alliance (DCA).

The AstroGrid Project Leader is a member of the Euro-VO Executive, and the Project Scientist attends the VOSAC in his capacity as VOTECH/VOTC Project Scientist. The VOFC is led jointly by ESO and ESA; the DCA is led by CDS; the VOTC is led by AstroGrid. The VOTC is currently essentially synonomous with the VOTECH project, but in the future will become a more subtle alliance of technology projects. The three virtual organisations are "bring your own bottle" parties; they have no funding of their own, but are run through contributions of resource in three ways - by effort from the subscription based treaty organisations ESO and ESA; by effort from nationally funded projects; and by effort from EC funded collaboration projects such as VOTECH, VODCA, and AIDA.

VOTECH

VOTECH is an EC FP6 project led by AstroGrid (Edinburgh is formally the co-ordinating partner) and also involving CDS, INAF, and ESO. Staff from ESA also informally collaborate. This

provides resource to the AstroGrid partnership, but also commits us to the expenditure of resource from STFC funding, and to the leadership of several work packages within the project. It also commits us to specific deliverables and milestones. We have been careful to align VOTECH and AstroGrid goals as far as possible, seeing VOTECH as providing the R&D necessary for future AstroGrid engineering. The work-cycle for VOTECH is deliberately 3 months out of phase with AstroGrid, to make this as easy as possible. The key working method established by VOTECH is the twice yearly open "Technology Forum", including the very successful "hackathons".

VOTECH continues through 2008. During 2009 we will rely on effort from AIDA to achieve the same ends.

VODCA

VODCA is an EC FP6 project led by CDS, with AstroGrid represented by Leicester. It aims at co-ordinating the deployment of VO technologies across Europe, and especially at European Data Centres. It provides a modest amount of resource to AstroGrid, and some workpackage obligations, but also provides very important links including access to European as well as UK data centres.

Astronomical Infrastructure for Data Access (AIDA)

AIDA is a new EC FP7 project led by CDS, with AstroGrid represented by Edinburgh. It is an "Integrated Infrastructure Initiative (I3)" and so is intended to fund elements of all of VOFC, DCA, and VOTC. It will provide approximately 2 FTEs to AstroGrid for 2 years. The project starts on Feb 1st 2008, lasting for 2.5 years, and so overlaps VOTECH.

(H) Staffing Plan

We have distinct staff types, but we do not have distinct functional teams. Project staff work as a single flexible team under the direction of the Project Manager, with allocation to work areas decided cycle by cycle.

Current Staff List

These are the staff involved in the project, including those formally working on VOTECH and DCA, as of Jan 1st 2008. (Not all are funded for the duration of the project). The funding source named is that applicable as of Jan 1st 2008.

Name	**Location**	**Staff Type**	**FTE**	**Funding**	**Note**
Allan, Peter	RAL	Investigator	0.05	STFC	
Andrews, Kona	Edinburgh	Engineer	1.00	STFC	
Auden, Elizabeth	MSSL	Engineer	0.50	STFC	
Benson, Kevin	MSSL	Engineer	1.00	STFC	
Birkinshaw, Mark	Bristol	Investigator	0.03	STFC	
Culhane, Len	MSSL	Investigator	0.10	STFC	
Dalla, Silvia	UCLAN	Scientist-Co-I	0.50	STFC	
Garrington, Simon	Manchester	Investigator	0.10	STFC	
Gilchrist, Gary	Leicester	System Manager	0.80	STFC	
Gonzalez, Eduardo	Cambridge	Scientist	0.50	STFC	
Gray, Norman	Leicester	Engineer	0.50	EC	
Greimel, Robert	Cambridge	Scientist	0.50	EC	
Harrison, Paul	Manchester	Engineer	1.00	EC/STFC	
Holliman, Mark	Edinburgh	System Manager	0.80	EC/STFC	
Holloway, Ant	Manchester	System Manager	0.25	STFC	
Lawrence, Andy	Edinburgh	Investigator	0.10	STFC	Project Leader
Lusted, Jeff	Leicester	Engineer	1.00	STFC	
McCrea, Ian	RAL	Investigator	0.05	STFC	
McMahon, Richard	Cambridge	Investigator	0.10	STFC	
Morris, Dave	Cambridge	Engineer	1.00	STFC	
Noddle, Keith	Leicester	Manager-Co-I	1.00	STFC	Project Manager
Quin, Catherine	Leicester	Engineer	0.90	STFC	
Richards, Anita	Manchester	Scientist	0.75	STFC	
Rixon, Guy	Cambridge	Engineer	0.75	STFC	
Taylor, Mark	Bristol	Engineer	1.00	STFC	
TBD	Edinburgh	Engineer	1.00	STFC	ex-John Taylor
Tedds, Jonathan	Leicester	Scientist	0.50	EC/STFC	
Walshe, Brian	Edinburgh	Engineer	1.00	EC	
Walton, Nic	Cambridge	Scientist-Co-I	0.75	STFC	Project Scientist
Watson, Mike	Leicester	Investigator	0.10	STFC	
Wild, Mathew	RAL	Archive Developer	0.25	STFC	
Williams, Peredur	Edinburgh	Administrator	0.10	EC/STFC	
Winstanley, Noel	Manchester	Engineer	0.50	STFC	
Witherick, Dugan	UCL	Scientist	0.50	STFC	

Associate Data Centre Staff

Below are key contacts at UK astronomical data centres. (These names may evolve). We will attempt to find funding for at least some of these or equivalent named individuals, and so formally call on their time.

Read, Mike	Edinburgh	Archive Developer	n/a	n/a
Law-Green, Duncan	Leicester	Archive Developer	n/a	n/a
Lewis, Jim	Cambridge	Archive Developer	n/a	n/a
Smith, Mike	MSSL	System Manager	n/a	n/a
Rainnie, John	RAL	Archive Developer	n/a	n/a
Allan, Alasdair	Exeter	Engineer	n/a	n/a

Associate Investigators

Mann, Bob	Edinburgh	Associate	n/a	n/a
Lahav, Ofer	UCL	Associate	n/a	n/a
Nichol, Bob	Portsmouth	Associate	n/a	n/a
Naylor, Tim	Exeter	Associate	n/a	n/a
Brodlie, Ken	Leeds	Associate	n/a	n/a
Linde, Tony	Leicester	Associate	n/a	n/a

Staff roles

The **Project Leader**, assisted by the AstroGrid Board representatives on the management team, has overall responsibility for project policy and delivery, acting on behalf of the Board from day to day.

The **Project Manager** has responsibility for the definition of AstroGrid product, the strategic technical development of AstroGrid, financial control, and overall planning. He plans and oversees the work of all engineers and scientists on the team. By agreement with local line managers, the Project Manager has direct control over individual staff members, rather than working through local workpackage managers.

The **Project Scientist** is the main liaison point with the astronomical community, has prime responsibility for the support of astronomers using the operational system, and by advising the Project Manager works to see that the system delivers science capability. The Project Scientist takes the lead on planning and implementing the marketing of AstroGrid through for example demos, talks and workshops.

The **Project Administrator** assists the Project Leader and Project Manager in supplying and analysing financial information, tracking the use of the various grants, co-ordinating meetings, and helping to prepare paperwork.

The **Staff Engineers** take on a variety of duties as required by the Project Manager, including a mixture of (1) coding of core infrastructure components; (2) code maintenance, upgrading and re-factoring; (3) production of technical documentation; (4) wrapping and integration of existing tools and applications; (5) implementation of new components that come out of the R&D programme; (6) contributions to the R&D programme, for example testing of new technologies; (7) contributions to the IVOA standards programme; (8) deploying, operating, and maintaining AstroGrid components on real machines, and assisting data centre staff and other VO projects worldwide in deploying AstroGrid components. Staff Engineers are selected to cover a variety of key technical skills.

The **Staff Scientists** take on a variety of duties as required by the Project Manager, including a mixture of (1) design of user interface components with designated engineers; (2) production of end-user documentation; (3) supporting end-users; (4) contributions to the R&D programme, for example investigating new technologies and testing prototypes; (5) contributions to the IVOA standards programme; (6) working with data centre staff to assist deployment of AstroGrid components, and publication of datasets; (7) training users through workshops and seminars. Staff Scientists are selected to cover a variety of science areas and technical skills.

The **Staff System Administrators** are responsible for deploying, maintaining, and operating the core services run by the working AstroGrid system (Registries, VOSpace servers, Community, and Application Servers). In addition, they will advise on deployment and maintenance of DSA components in front of consortium owned data services, and on deployment and maintenance of Community components at UK institutions deploying those components. On occasion, they will also contribute to code development and maintenance.

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(I) Budget Plan

Planned expenditure in Oct 2007 k£ for the two year duration is summarised below. This is only the STFC-FEC budget, not the EC projects budget.

Investigators	145
Staff	1577
Capital Equipment	124
Estate Costs	313
Travel	84
Consumables etc	81
Indirect costs	941
Total FEC costs	3198
Total with indexation	3306
STFC contribution	2645

Notes : (i) The equipment line is for planned servers at each core site - personal equipment is included elsewhere. (ii) Travel funds are not held in a central fund, as was done in AG2, but simply allocated to each institution. (iii) The above figures include the project "working allowance". STFC holds a separate contingency amount. (iv) Because of the rather different accounting methods at different institutions, the above division into categories is not precise

Planned expenditure at each partner is as follows :

Edinburgh	488
MSSL-UCL	508
Cambridge	650
Manchester	363
UCLAN	78
Leicester	821
RAL	80
Bristol	210

Appendix : Detailed Roadmap as of Oct 2007

The table below lists all the planned events for AstroGrid-3 and related projects, as of October 2007. The detailed calendar is of course being continually updated. It is currently held as a Google Calendar at this address

2007	Oct 01	VOTECH S1 start
2007	Oct 08	VOTECH External Review
2007	Oct 08-11	VOTECH DSRP
2007	Oct 10	AGLI Telecon
2007	Oct 16	AGOC-11
2007	Oct 16	Draft of Lifetime Project Plan (LPP) and Deployment Plan (DP)
2007	Oct 22	VOTECH Technical Advisory Panel (TAP)
2007	Oct 22	AGLI Telecon
2007	Oct 29	AGSAG-13 (Southampton)
2007	Oct 05	Draft SLAs
2007	*Oct 07*	VOTECH Board
2007	Oct 15	Help Desk s/w installed
2007	Dec 03	AG3-C1 Planning meeting
2007	Dec 10	LPP and DP agreed by AGLI
2007	Dec 10	AGLI (Last one..)
2007	Dec 13-14	Full Project Meeting AG-PM13 (Leicester)
2008	Jan 01	AG3-C1 start
2008	Jan 07	Kick off meeting of AstroGrid Board (AB-0)
2008	Jan 14	Risk Register complete
2008	*Jan 14*	Oversight Committee (AGOC-12)
2008	Jan 15	VODesktop beta release
2008	Jan 17	IVOA Exec Telecon
2008	Feb 01	AIDA Kick off phase starts
2008	Feb 18	SLAs agreed (Services; Sys Admin; App Programmer)
2008	Feb 25	Phase-1 deployment (AG owned core services)
2008	*Feb 26*	AB-1
2008	Feb 27	Metrics Doc complete
2008	Feb 28	HelpDesk Operational
2008	Feb 29	AIDA Board
2008	Mar 03	CSR (Critical Service Review; combined with AGAG)
2008	Mar 03	AGAG-1
2008	*Mar 17-20*	VOTECH S7-DSRP (=AIDA Kick-off)
2008	*Mar 27*	AIDA WPMT/IST
2008	Mar 31-	
	- Apr 04	RAS National Astronomy Meeting (Belfast)
2008	*Mar 31*	VOTECH TAP-Board
2008	Apr 01	VOTECH S7 start
2008	Apr 02	VODesktop 1.0 release
2008	Apr 21	Science Call-1
2008	*Apr 29*	AB-2
2008	May 01	AIDA C1 start
2008	May 19024	IVOA interop (Trieste)
2008	*Jun 03-04*	User-workshop-1; combined with AGAG and planning meeting
2008	Jun 04	AGAG-2
2008	Jun 05	C2 planning meeting
2008	*Jun 16-17*	AG-PM14

2008	*Jun 23*	AB-3
2008	Jun 27	AIDA-SAC-1
2008	Jul 01	AG3-C2 start
2008	*Jul 07*	AGOC-13
2008	*Jul 15*	Submit UKVO proposal
2008	Aug 25-26	Resource Providers Workshop-1
2008	*Sep 01*	AB-4
2008	Sep 04	Phase-2 Deployment (DC services outwith consortium)
2008	*Sep 15-18*	VOTECH S8 DSRP S8 = AIDA Tech Forum-2
2008	*Sep 22-24*	ADASS-18
2008	*Sep 25-26*	IVOA interop
2008	*Sep 29*	VOTECH TAP/Board
2008	Oct 01	VOTECH S8 start
2008	*Oct 12*	AB-5
2008	*Oct 15*	UKVO proposal PPRP review
2008	*Oct 22-23*	AIDA community feedback workshop-1
2008	*Oct 23*	AIDA WPMT
2008	Nov 17	New Technology Report
2008	*Nov 21*	AIDA-SAC-2
2008	*Dec 01*	AGAG-3
2008	*Dec 02*	C3 planning meeting
2008	*Dec 15-16*	AG-PM15
2008	*Dec 16*	AB-6
2008	Dec 31	VOTECH end
2009	Jan 01	AG3-C3 start
2009	Jan 05	Revised LPP
2009	*Jan 12*	AGOC-14
2009	*Jan 19-20*	User workshop-2
2009	*Feb 18-19*	AIDA Hands-on workshop
2009	Feb 23	CSR2 (Second Critical Service Review)
2009	*Feb 23*	AB-7
2009	*Mar 02-03*	Resource Providers Workshop-2
2009	*Mar 16-19*	AIDA Tech-Forum-3
2009	*Mar 31*	AGAG-4
2009	*Apr 06-10*	RAS NAM (Herts ?)
2009	*Apr 06*	New Release
2009	*Apr 15*	UKVO proposal result
2009	*Apr 17*	AIDA WPMT
2009	May 01	AIDA C2 start
2009	*May 01*	AIDA WPMT/IST
2009	*May 05*	AB-8
2009	May 12	Science Call-2
2009	*May 14*	AIDA Board
2009	*May 18-21*	IVOA interop
2009	*May 29*	AIDA-SAC-3
2009	*Jun01*	AGAG-5
2009	Jun 02	C4 planning meeting
2009	*Jun 15-16*	AG-PM16
2009	*Jun 22*	AB-9
2009	Jul 01	AG3-C4 start
2009	*Jul 06*	AGOC-15
2009	*Jul 15*	UKVO proposal negotiation

2009	Aug 03-14	IAU General Assembly, Brazil (major demo)
2009	Sep 03	Phase-3 Deployment (Enhanced DC services)
2009	*Sep 08*	AB-10
2009	*Sep 22-25*	AIDA Tech-Forum-4
2009	*Sep 23*	AIDA Data Centre workshop
2009	*Oct 05-07*	ADASS-19
2009	*Oct 08-09*	IVOA interop
2009	*Oct 22-23*	AIDA community feedback workshop-2
2009	*Oct 23*	AIDA WPMT
2009	*Oct 27*	AB-11
2009	*Nov 23*	AIDA-SAC-4
2009	*Dec 07*	AGAG-6
2009	Dec 08	UK1 planning meeting
2009	*Dec 17-18*	AG-PM17
2009	*Dec 12*	AB-12
2010	Jan 01	UK1 start
2010	*Jan 04*	AGOC-16
2010	*Feb 17*	AGAG-7
2010	*Feb 23*	AB-13
2010	*Mar 01-04*	RAS NAM
2010	*Mar 16-19*	AIDA Tech-Forum-5
2010	*Apr 20*	AB-14
2010	May 03	AIDA closure phase
2010	*May 17-21*	IVOA interop
2010	*May 31*	AIDA WPMT/IST
2010	*Jun07*	AGAG-8
2010	*Jun 08*	UK2 planning meeting
2010	*Jun 17-18*	AG-PM18
2010	*Jun 21*	AB-15
2010	*Jun 29*	AIDA Board
2010	Jul 01	UK2 start
2010	*Jul 05*	AGOC-17
2010	Aug 31	AIDA end
2010	*Sep 01*	AB-16