

Presentation to PPAP meeting

Jordan Nash – PPAN Chair

Why this meeting?

- ▶ What is happening
- ▶ What do we need from the PP Community



What is happening

- ▶ STFC needs to prepare a budget for 2010/2011 and planning for some years beyond
 - ▶ Timescale roughly by the end of the year
 - ▶ (Note this year's budget was completed in May)
- ▶ There are uncertainties at the overall level of the budget
 - ▶ But the signals are not of an expanding budget line
- ▶ There are a lot of new ideas coming from ex-PPARC and ex CCLRC for projects
 - ▶ The ambitions of all the stakeholders in STFC are clearly more than can be funded
 - ▶ Need to prioritize
 - ▶ Need to understand planning lines for projects
 - ▶ When and how much spend is needed for each project
- ▶ How to manage spend on current projects as well as allowing for new projects



Some of the New Ideas

▶ PPAN (not a complete list)

- ▶ ATLAS Upgrade
- ▶ Boulby underground facility
- ▶ Caltech Cornell Atacama Telescope CCAT
- ▶ CMS upgrade
- ▶ CLIC
- ▶ Cosmic vision
- ▶ CTA
- ▶ Dark matter - future
- ▶ ELENA
- ▶ ELT R&D
- ▶ ELT subscription
- ▶ Einstein Telescope
- ▶ FAIR additional start version
- ▶ GAIA data next phase
- ▶ GRID PP 4
- ▶ HEI ISOLDE
- ▶ JLAB upgrade
- ▶ Large Synoptic Survey Telescope - LSST
- ▶ LHCb upgrade
- ▶ Linear collider R&D
- ▶ MoonLITE
- ▶ Magdalena Ridge Optical Interferometer

▶ PALS (not a complete list)

- ▶ Vulcan PW Laser
- ▶ New Light Source
- ▶ Hiper
- ▶ ISIS upgrades
- ▶ Diamond Upgrades
- ▶ ESS

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- ▶ MICE
 - ▶ NA62

How to Prioritize – Understand funding profiles

- ▶ Start with asking the communities
- ▶ Use the Advisory Panels to gather input from the communities
 - ▶ Make a first pass at looking at priorities within an area
- ▶ PPAN and PALS will gather the input from their respective areas
- ▶ Science Board to look at global picture and report to Council



Advisory Panels

- ▶ PPAN advisory panel structure
- ▶ 5 panels reporting to PPAN
 - ▶ Particle Physics
 - ▶ Nuclear Physics
 - ▶ Near Universe
 - ▶ Far Universe
 - ▶ Particle Astrophysics
- ▶ The Advisory Panels basic remit
 - ▶ Provide Horizon scanning input for long term strategy planning
 - ▶ Provide input on CSR/Programmatic review priorities
 - ▶ Contact point for communication with the community



Advisory Panels Terms of Reference

- ▶ Draft and maintain a roadmap describing current and future research opportunities in their areas, for presentation and approval by PPAN
- ▶ Consult and interact with the community to ensure its views are canvassed and there is an appropriate and effective route for communication with STFC on strategic programmatic issues
- ▶ Make an independent presentation to PPAN on the relevant panel area in years in which an STFC Programmatic Review takes place, thereby providing community input to the programmatic review process
- ▶ Respond to other specific requests from PPAN for advice as the need arises

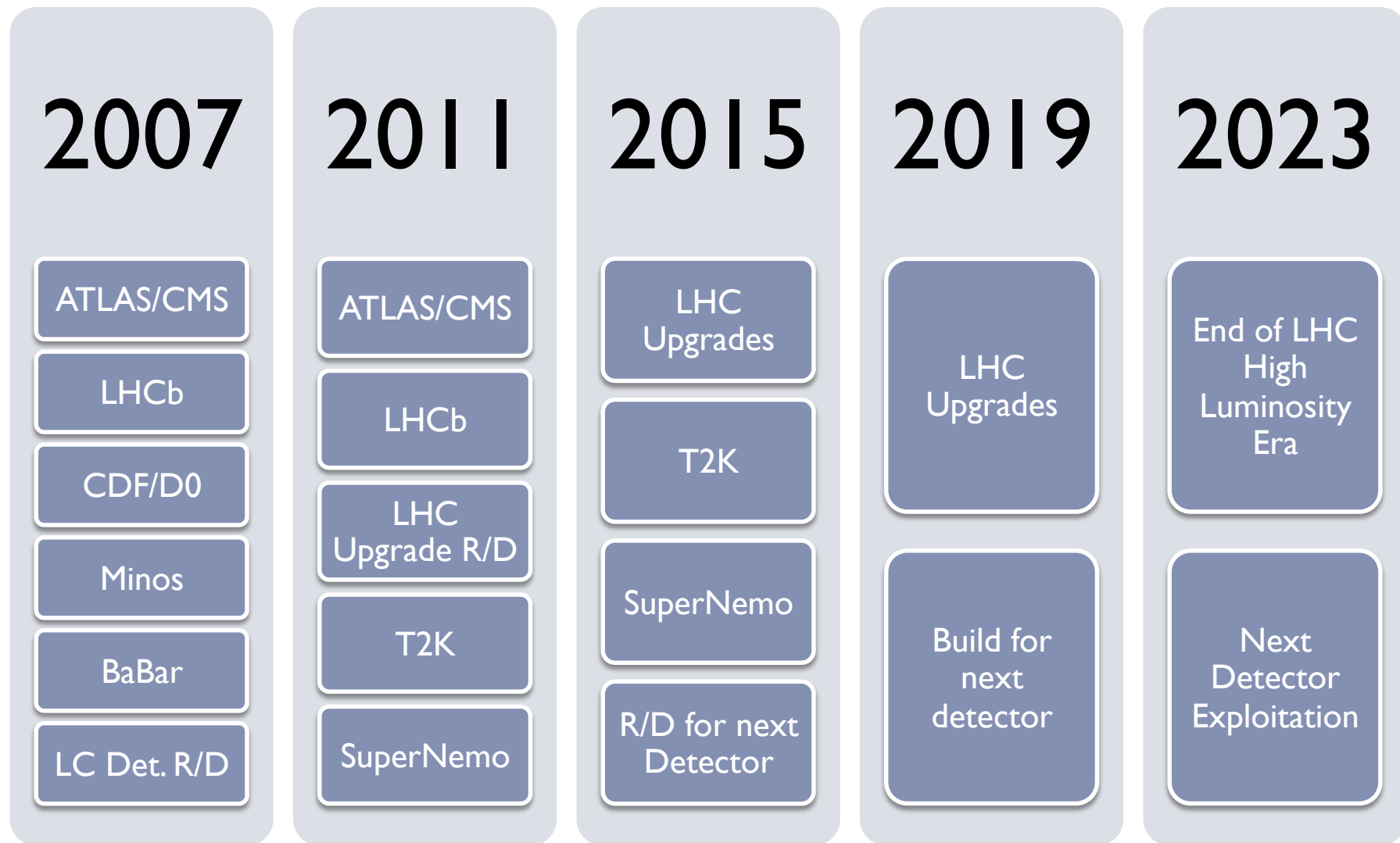


Programmatic Reviews

- ▶ The programmatic review looks at all projects in the PPAN and PALS areas and produces a prioritized ranking
- ▶ This was a major piece of business last year
 - ▶ In reaction to the last CSR (Comprehensive Spending Review)
- ▶ It makes sense to have the outputs of a programmatic review in order to react to the outcome of a CSR
- ▶ Aim to have next PR complete in time to deal with the outcome of the next CSR
- ▶ Will need to start the process later in the year
- ▶ Input this Autumn on how potential new projects are prioritized



Shape of the program after the PR



Science Results and community input needed to define fully the longer term program

Project Ranking

Ranking	Projects
Alpha-5	ATLAS, CMS, GridPP, nEDM
Alpha-4	LHCb, LHC Upgrades, SuperNEMO, T2K
Alpha-3	CDF, D0, eEDM, Future Collider R&D
Alpha-2	Minos
Alpha-1	BaBar

- ▶ The PR produces a ranking of projects
- ▶ All PP projects were alpha rated (fundable)
- ▶ The final ranking was produced last year after the consultation exercise with the community
- ▶ Published on the STFC web site
 - ▶ <http://www.stfc.ac.uk/resources/pdf/FinalProgRevOutcome.pdf>



New opportunities may be at very different stages

Idea on Road Map

- New project or concept along with a rough timescale/cost
- Advisory Panels are a good place to feed these

Statement Of Interest (SOI)

- Short document submitted to PPAN
- Outlines the science, timescale, cost
- Approval usually invites a full proposal

Full project Proposal

- Submitted to PPRP
- Detailed Science Case
- Detailed Project Plan
- Full Peer Review by PPRP

PPRP Recommendation

- Presented to PPAN
- Detailed review of Project Plan
- Review of Science Case
- Recommendation on priorities for work packages

PPAN Recommendation

- To STFC Executive and Science Board
- Whether or not to approve
- Recommended budget

What we need from the community

- ▶ A clear set of priorities
- ▶ Identify what we *have* to do and why
- ▶ What opportunities we have
- ▶ Some guidance on
 - ▶ Timescales
 - ▶ What are potential calls on funding
 - ▶ Are the communities the right size to take advantage of the opportunities?

