



# NGS

National Grid Service



# **“Training the Trainers”**

## **Introduction**

Mike Mineter

# Goals of event

- To support those intending to deliver NGS training
  - Based on experience with EGEE Training Trainers events
- By
  - Presentations: background, procedures, some of what we've learnt in last 3 years
    - Some necessities for NGS courses
  - Discussion at any stage!
    - Especially perhaps:
      - How Brunel's (and friends') objectives can be advanced by giving NGS training courses
      - How can NGS training team support
- Also:
  - Establish RA for Brunel (and Sussex?) ??

# This course's contents

- course derived from EGEE.
- Compare and contrast contexts:
  - Similarities: we seek
    - to support other trainers
    - to gather statistics across all NGS-related training
    - to acknowledge and advertise trainers' efforts
  - contrast
    - Training is (probably) unfunded effort (unless VO-specific?)
    - requires synergies with trainers' own goals
    - motivated not only by the desire for common good...
- Scope of today: training not education
  - Meet with ICEAGE also??

# Agenda

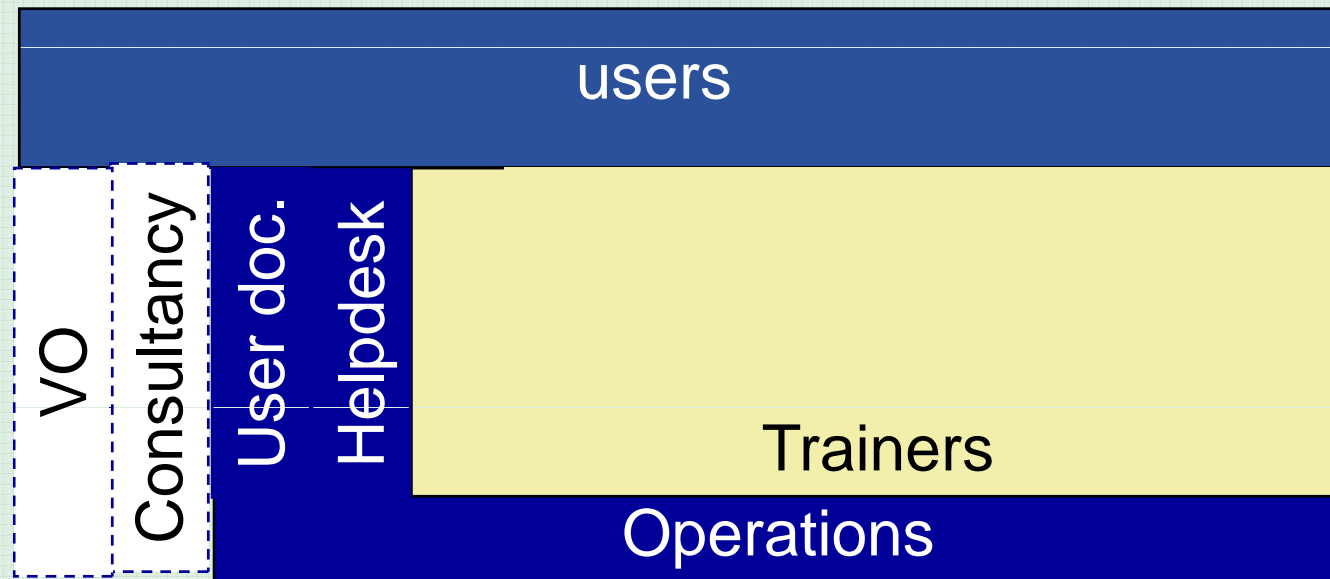
- <http://indico.cern.ch/conferenceDisplay.py?confId=13945>

# Introduction

- What are trainers for?
- NGS training
  - Outline 6 months plan - from March

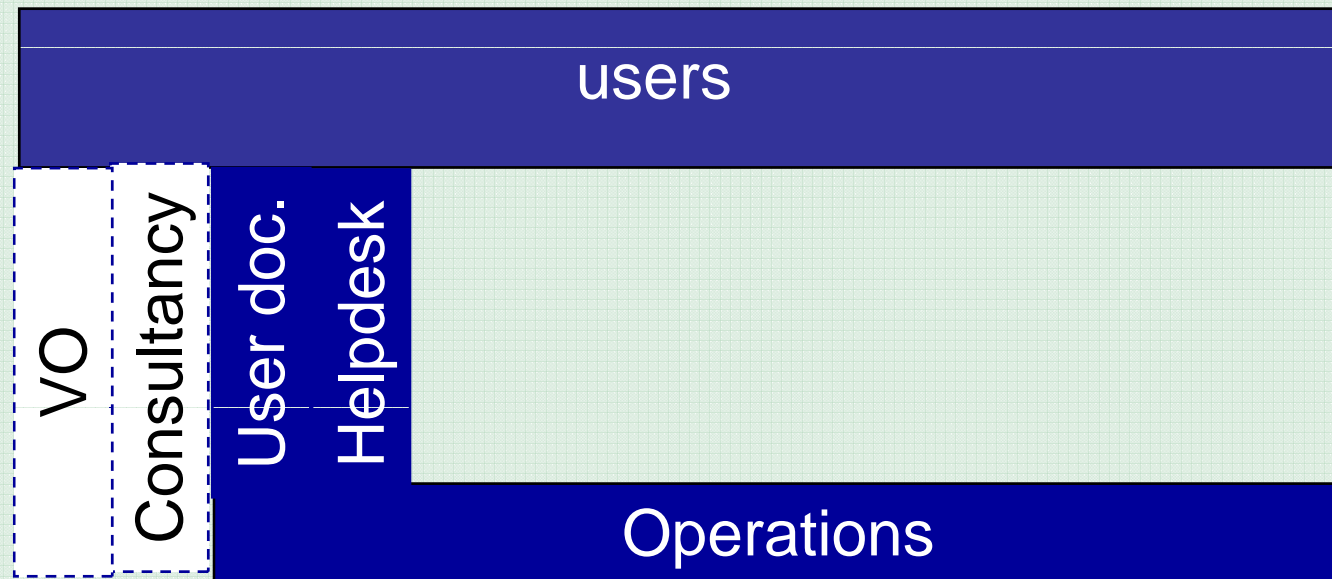
# What are trainers for?

- NGS Goal: many effective and active users in many locations
- Technology is supported by a small number of people
- Training helps to make this feasible and scalable



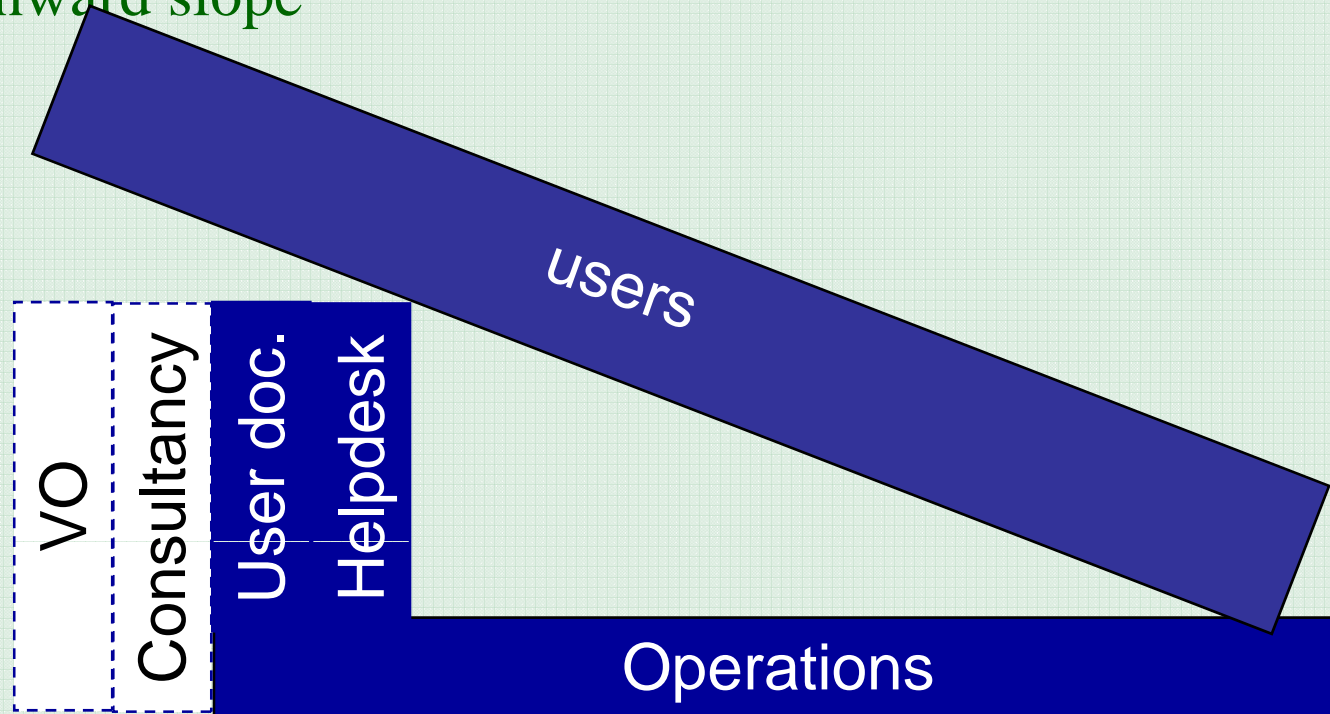
# Without training....

- Users uninformed, Support staff overloaded



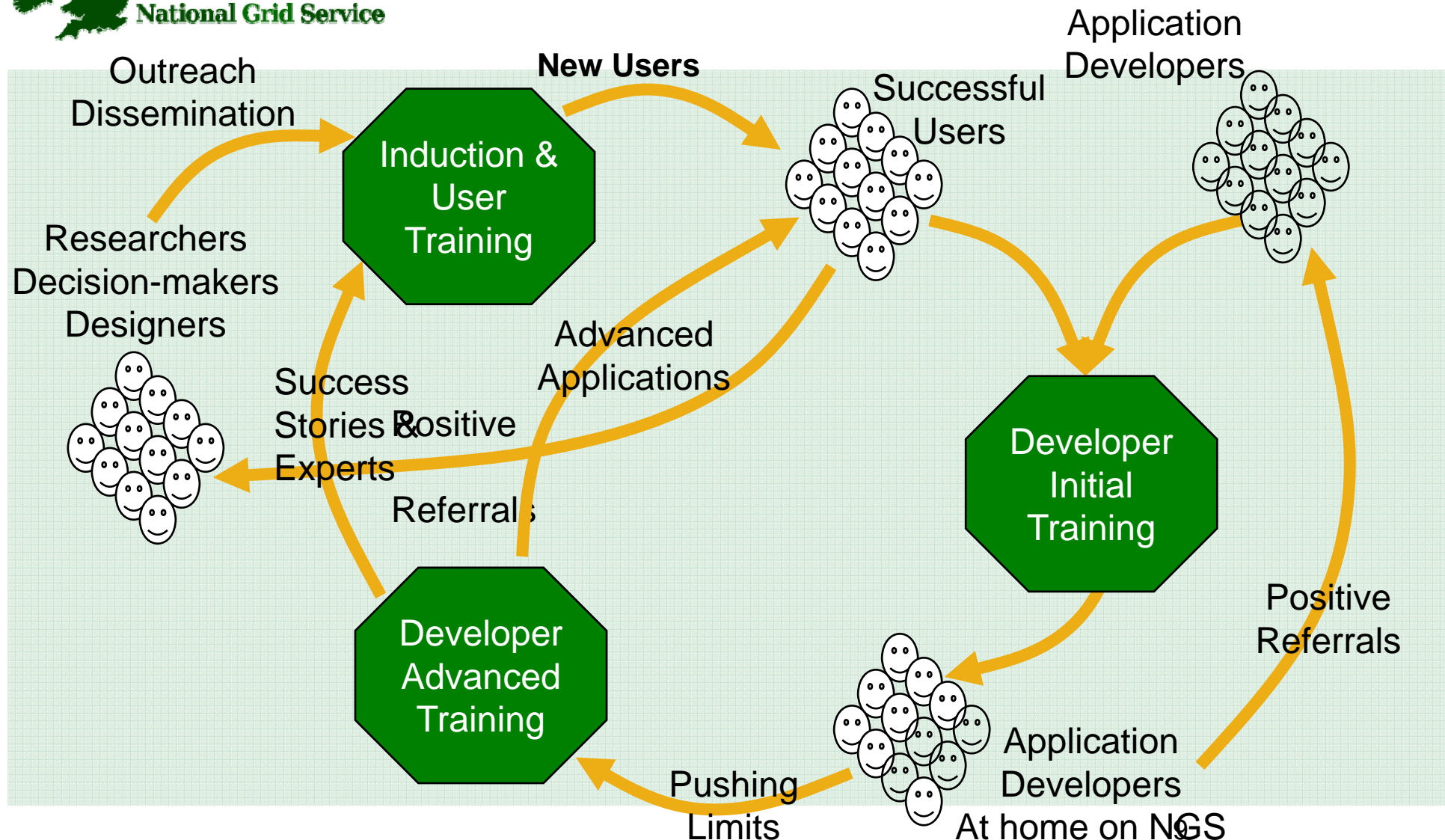
# Without training....

- Users uninformed, Support staff overloaded
- Downward slope





# Gaining new and effective users



# Trainers network

- UK network of trainers
  - Name to be finalised!!
  - Wiki
  - AHM BoF proposed
- [http://wiki.nesc.ac.uk/read/ahm\\_bof\\_training](http://wiki.nesc.ac.uk/read/ahm_bof_training)

# NGS training

- NGS training
  - Outline 6 months plan from March
  - As presented to NGS “Face-to-Face” meeting, Leeds, March 2007

# Training in NGS 2

- Strong focus on establishing user communities
- Over last 6 months
  - 1 FTE at NeSC-TOE
  - ~0.5 at CCLRC-RAL (Katie)
  - Support Centre support
    - Training CA – Jens
    - Queue reservations (KH, SY,..)
  - Consultancy on request!... Thank you!!!! (SP, AR, SY, MJ,..)
  - + other support from NGS partners in material prep / delivery (later in talk)
- Courses delivered:
  - User and application developer
  - RA training

# Strategy – next 6 months

- Web material – self-guided learners
- Courses – want to prioritise cases with:
  - scope for building NGS communities
  - potential for community's own training effort
- Collaborative where appropriate – OMII-Europe especially (VOMS, OGSA-DAI)
- Investigating short, focussed “distributed training events”
  - Distributed set of participants – Access Grid perhaps
  - Not yet scheduled – admin, CA, firewall issues
- Continue small-scale effort to build UK network of trainers
  - scope for cooperation

# Induction courses

- Will be transformed by the NGS portal and the RB.  
Likely is:
  - Intro to concepts
  - Using GSISsh, X509, globus-job-\*
  - Use of NGS portal
  - Resource Broker – practical to include scripting
  - MPI and concurrent jobs
  - JSDL and GridSAM
  - Storage services (SRB; ORACLE)
  - Data services intro. (OGSA-DAI)
  - Next steps – how to get an account

# Application developer courses

- Growing set of modules – focus on community need to develop and share applications
  - new modules
    - In step with releases.... If have adequate notice of deviations from the roadmap! And support from providers!
    - GridSAM
    - OGSA-DAI release 3
    - VOMS – how to use the VOMS credentials? – data providers
    - NGS portal and portlets- advanced
    - Possible additions: computational steering
  - AHE, P-GRADE – as appropriate where UCL/UoW teams can deliver
- Configure modules for courses to meet events' goals: not a set of fixed 2-day courses
- Deliver some remotely – new NGS services especially.

# Draft Plan -1

Date	Action	Comment
March	Current Induction material on webpages	For general users – not assuming context of courses (training certificates, etc)
	<i>Plan</i> for Digital Library support	To hold training material for UK escience: IPR, licencing key issues
	Extend RB training material	to include scripting
April	Revised induction course	NGS portal, RB, GridSAM



## Draft Plan -2

Date	Action	Comment
June	“Data on NGS” course – initial run.	to support projects’ controlled sharing of data: SRB, VOMS, OGSA-DAI (rel, 3), ORACLE:
June	WS-GRAM	Web-based pages; app dev. module

### Current event schedule – next 4 months:

- March - NCESS week
- April - 5 days at Brunel
- ~ 2 more courses before end June

# Need....

- VOs to become self-sufficient
- More trainers
  - TOE continues to do some training but seeks also to support others to increasing extent
- Training for specific VOs, created and delivered collaboratively

# Conclusion

- We have 2,500 more users to find in 2 more years to meet NGS goals
- We have ~1.5 FTE effort in NGS training
- Therefore more trainers are welcomed!! (even if running only occasional courses)
- We are seeking to expand material and relevance to specific VOs
- Therefore your insights and enthusiasms are also welcomed!
- TOE-NeSC will seek to support you