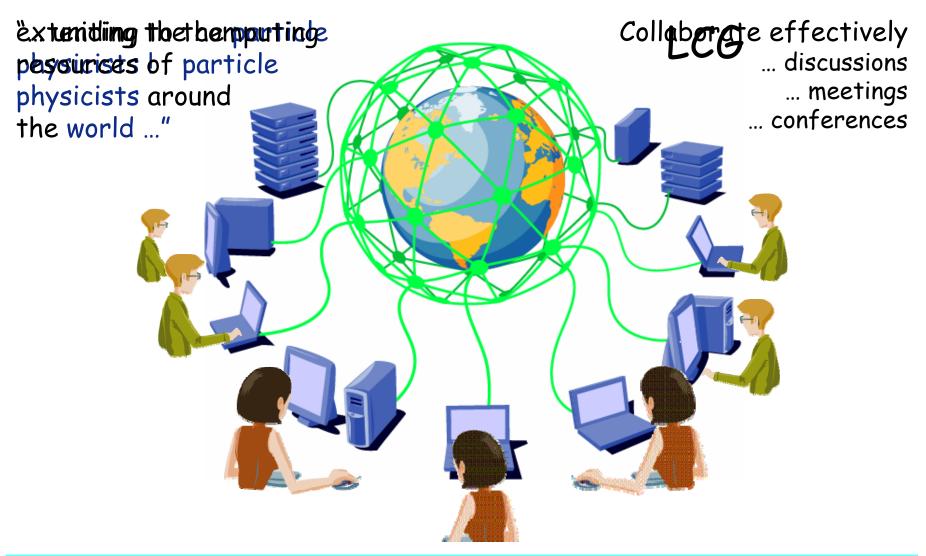
Collaborative Tools in CERN-IT [Response to RTAG12]

LCG-PEB 28th June 2005

Tim Smith IT/UDS

Vision



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Vision Provisos

- Keen to respond to need, however...
- World-wide activity:
 - CERN as focus but not sole responsible
 - Each centre should build up its own resources, expertise and support
- Collaborative tools wide scope
 - email; instant messaging; network; VoIP; phone conferencing
 - No need to bring altogether in one team
 - Independent manpower, housed in relevant teams
- Scope: wider than LHC experiments

Audio-Visual Service

Conferencing - classical

- Official meetings
- Physical infrastructure Tutorials, presentations
 - Rooms, Equipment
 - Service: 24/7 operator-less phone; MCU; reflector
- Web go Indico: Abstract refereeing, proceedings
 - Integrated scheduling: phone, MCU, VRVS, physical
- Synchronous services retransmission
 - Web casting
 - Document & application Audio-visual event capture
- Asynchronous services

Rushes / Editing

Recording, archival and CDS Archival and markup

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Actions

Re-grouped

IT-CS Analogue/digital retransmission

IT-CS
 ISDN conferencing service

IT-IS
 VC support & room equip & VRVS service

IT-UDS Auditoria service

IT-UDS Indico team

IT-UDS-AVC [Audio-Visual and Conferencing Services]

SL: Thomas Baron

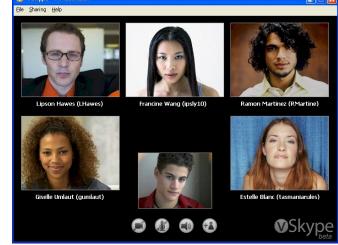


Strategy

- "Make a world class service" we would love to!
 - Within the limits of available people and skills
- Room ownerships / responsibilities / funding
 - 25 meeting rooms (+4 equipping, +3 planning) [13]
 - 13 auditoria [7]
- Investigate the ideal room setup
- Build up infrastructure and re-equip rooms
 - Bring out of hibernation: (1999-2001 investment)
 - Materials investment
 - And what about the maintenance budget?
- Recommended HW / Stores items / Guidelines
 - Buy-in? Exciting field; emerging solutions
 - Who is interested in waiting and adopting technology behind the cutting edge

"Complex solution space"

- Technology emerging from niche
 - Demands and expectations rising
 - General interest public; industry
 - Public domain SW: GnomeMeeting,
 ohphoneX
- Start-ups, big telecoms
 - and now disruptive businesses



Agenda -> Indico

- Consolidating on one event mgmt tool at CERN: Indico
 - EU project; based on Agenda knowledge + wishlist http://indicodemo.cern.ch
- Migration plan
 - July: Move to production server
 - August: IT categories migrated
 - September: Seminars and courses
 - December: All other categories
- EGEE
 - EGEE03 Athens, used Indico
 - EGEE04 Committed to use
 - Lots of valuable feedback being incorporated

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RTAG12

- Step through recommendations
 - With comments

R1: Establish a CTS

- A1: AVC Section created
 - Regrouped services with synergies
 - Collaborating services
 - IS for mail, instant messaging
 - CS for telephone conferencing
 - Web portal for guidelines, recommendations, FAQs etc
 - Scope: help for external institutes [...] help desk type facilities
 - R&D sub-projects + external collaborators
 - ? Oversight from each of LHC collaborations

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R2: VRVS support; MoU

- A2: VRVS status-quo
 - Focus on H323 capture equipment which can also easily be used for VRVS capture
 - Operational aspects: continue with hosting + cofunding CALTECH associate
 - Ensure smooth integration of CERN conference rooms in VRVS conferences
 - 9 Scope: [...] entire LHC physics life cycle
 - Documentation: Not VRVS specific, handle in A1
 - Scope: documentation [...] of video conferencing facilities at [...] participating institutes
 - ? MoU: "access to VRVS remain free"

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R3: H.323 MCU Service

- A3: Local MCU service
 - MoU with Lyon who will host the MCU (joint funding)
 - Global booking system development
 - Operation to appear as being under CERN's responsibility
 - ? Interoperability with VRVS: Deploy developments by VRVS team
 - ? Common interface for VRVS / MCU

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R4: User Support worldwide

- A4: User Support and web portal
 - SW downloads
 - HW recommendations: For CERN desktops
 - Stores
 - On-line support: HelpDesk + 2nd/3rd level
 - Web portal, FAQs: Yes
 - VC support [...] at home institutes or elsewhere, including transit

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R5: 24/7 phone conferencing

- A5: e-dial used by Internet2 (bought by Alcatel; being integrated)
 - Web based booking system
 - Remote documentation system
 - CERN originated calls
 - VoIP: medium term goal
 - SIP capability with latest Alcatel SW
 - ..time and money...

R6: Room equip and maintain

- A6: M&O activity in mandate of A1
 - Quality audio video: materials investment
 - Share documents
 - Determine directions first...
 - H239 or proprietary solutions
 - VNC (currently VRVS and Codian MCU)
 - Forthcoming technologies (new VRVS video stream mode)
 - Responsibilities...

R7: Web-cast/archive service

- A7: Capture-Recording-Streaming service
 - Fixed equipment in large auditoria
 - **♣** Low priority: Create a recording studio
 - Portable equipment
 - Record presentations & web archive
 - Careful choice of capture technology
 - Specific locations
 - Operator support on demand, with fee
 - External contracting needs advance warning!
 - Webcast infrastructure and licences
 - Server: Refresh and expand (investment)

R8: Global Collaborative Work Env

- A8: Indico Framework
 - Global audio video conf booking system
 - Meeting management
 - Recording and archival of documents, presentations and sessions
- Plans:
 - Links to physical room booking (CRBS rewrite)
 - Links to VRVS booking
 - Links to MCU booking
 - Links to webcasting
 - Links to launch VRVS client from Indico
 - Phone conferencing not automated until VoIP

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R9: Grid certificate support

- A9: Into workplan
 - VRVS team to do VRVS
 - Indico investigating possibilities

Resources

- Personnel
 - Coordinator ≤1 engineer(s) 1
 - Conferencing staff (2) echnicians 3
 - Camera Ops + archive 2(3) tech-engs 3
 - SW develop (2(3)) temp j-eng 4
 - Greater scope, occupied with Ops

- Materials
 - (0(10-100k)

O(1-10M)

Conclusions

- Share vision (not necessarily scope)
- Focused CERN activity
 - Made first positive steps
- Current resources
 - Maintain service
 - Steady SW enhancements O(years)
 - Gradual replacement of equipment