Chairman's Summary

3GPP TSG GERAN2#27 – Atlanta

08 – 10 November, 2005

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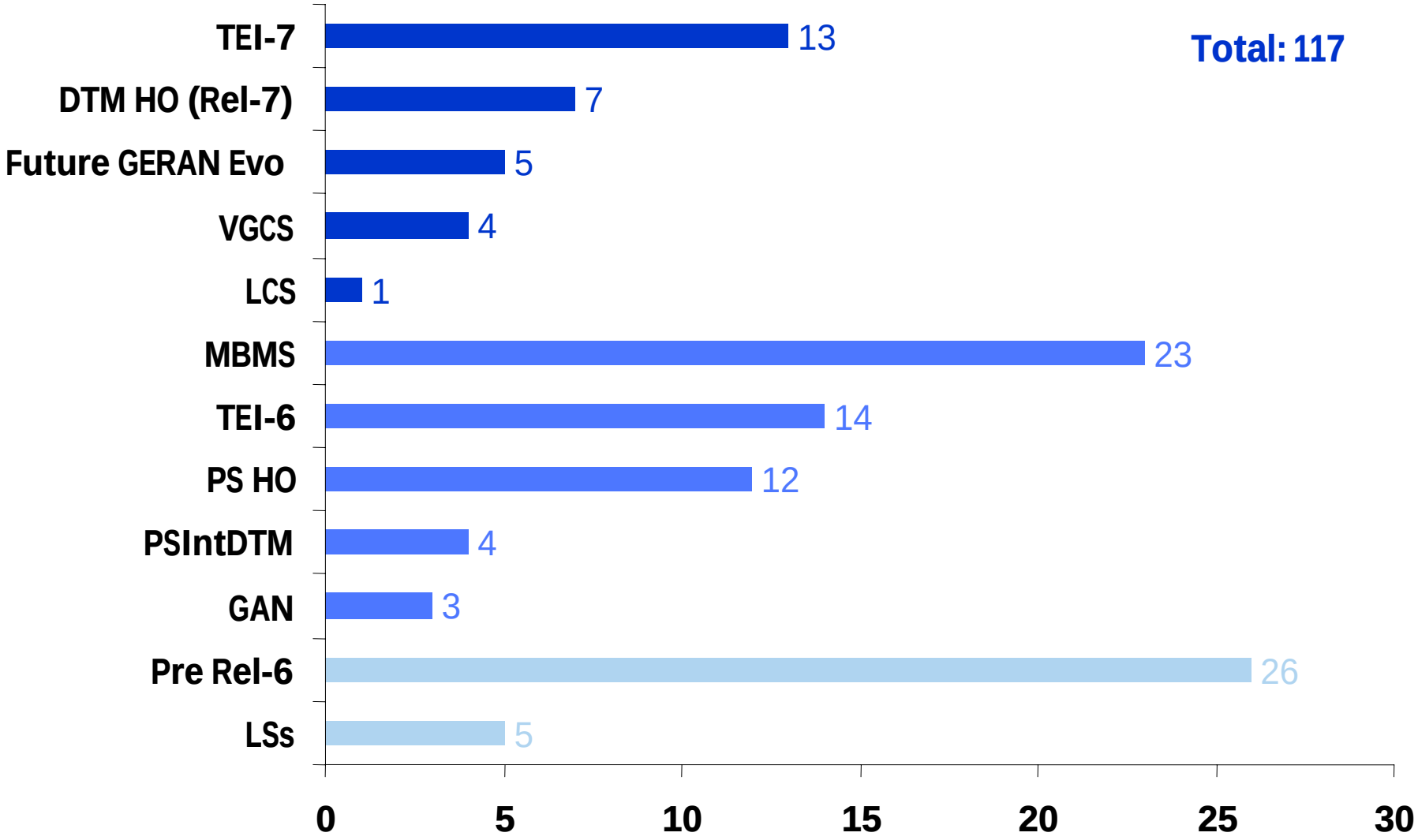
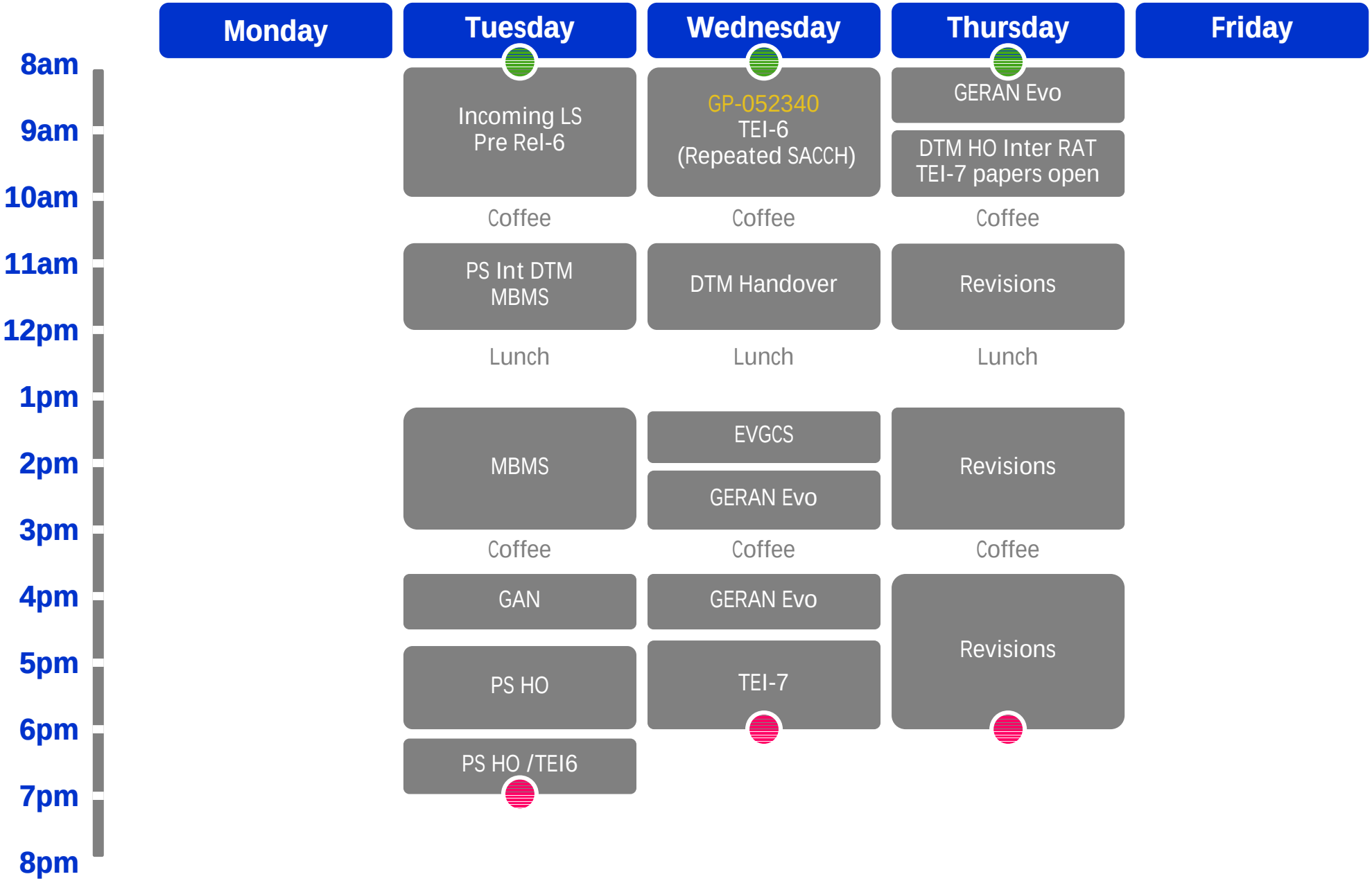
Incoming Contributions per Agenda Item



Total: 117

NOKIA
Connecting People



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Pre Rel-6 Corrections

- Corrections to UTRAN TDD cell information for 1.28Mcps TDD (Rel-4+)
  - GP-052752 – GP-052759 CRs 44.018, 44.060 agreed
  - Allow diversity options (none, TSTD, SCTD) for both chiprates (3.84 *and* 1.28Mcps) in PCCO, PCCF, PMO messages

- GP-052760 CR 44.018 agreed (Rel-7)
  - No activation of ciphering during UTRAN to GERAN A/Gb mode handover

- Proposal for introducing IP transport over A interface in Rel-5 rejected
  - Potential interest for pursuing this option in Rel-7
  - To avoid a BSC implementing "Intra-domain connection of RAN nodes to multiple CN nodes" on the A-interface having separate physical signalling links towards each MSC to achieve the multiple connections
- "Correction" to SNS-SIZE Procedure
  - Concerns raised that changing the SNS-SIZE procedure to reflect the maximum number of IP4/6 endpoints supported as opposed to the number of configured IP4/6 endpoints would be a functional change

Completed Rel-6 Work Items

- PSIntDTM
  - RR connection establishment using enhanced DTM CS establishment in response to an encapsulated DTM ASSIGNMENT message
    - Align behaviour with IA behaviour: RR connection established as per establishment of the main signalling link. Unnecessary complexity to define RR connection establishment as per sending/receiving Assignment Complete after main signalling link establishment
    - Action upon T3107 expiry clarified
    - GP-052761, GP-052762 CRs 44.060 agreed
    - GP-052765, GP-052908 CRs 44.018 agreed
- GAN
  - GP-052796 CR 43.318 endorsed
    - Misc. clarifications
  - GP-052909 CR 44.318 agreed
    - Misc. clarifications
  - GP-052910 CR 44.318
    - Plenary
  - UTRAN>GAN Handover
    - Similar behaviour as GERAN>GAN HO
    - GP-052921, GP-052922 to plenary

Completed Rel-6 Work Items – MBMS (1/2)

- Notifications in DTM
  - GP-052461 CR 43.246 endorsed
  - GP-052492, GP-052493 CRs 44.060 endorsed
- GP-052462 CR 43.246 endorsed
  - Correction to passive mode
- GP-052494, GP-052495 CRs 44.060 agreed
  - MS_ID can be assigned even though not requested
- GP-052496, GP-052497 CRs 44.060 agreed
  - Conditions triggering MBMS non-DRX mode
- GP-052529, GP-052540 CRs 44.060 agreed
  - Correction to Ncell list in MBMS Downlink Ack/Nack to refer to GSM Neighbour Cell list or BA(BCCH) list (if PBCCH not present and GSM Ncell list not acquired)
- GP-052769, GP-052770 CRs 44.060 agreed
  - Rules for Ncell measurement reporting in MBMS DL ACK/NACK defined to allow reporting of cell with/without cell reselection parameters

Completed Rel-6 Work Items – MBMS (2/2)

- MBMS Transfer mode
  - Concept endorsed by GERAN2, to be introduced as of Rel-6
  - GP-052792, GP-052793 CRs 44.018 agreed (conditionally to approval of other CRs)
  - GP-052794, GP-052795 CRs 44.060 (Plenary)
  - GP-052870 CR 43.246 (Plenary)
- GP-052907, GP-052908 CRs 44.018 agreed
  - Provision of MBMS parameters in "GPRS cell options" inband to CS connected DTM capable MS to allow for "Service information sending" (else the MS doesn't know the cell's MBMS capabilities)
- Permeable Layer Receiver – related
  - GP-052627, GP-052628 CRs 44.060 postponed until further notice
    - Changes will be made in Rel-6, if needed at all
    - SA4 confirmation needed

Completed Rel-6 Work Items – PS Handover in A/Gb mode

- Stage 2 (43.129)
  - GP-052800 CR 43.129 endorsed
    - Misc corrections
  - GP-052799 CR 43.129 endorsed
    - Number of Iu instances used
- Stage 3
  - GP-052533, GP-052534 CRs 44.060 agreed
    - Inclusion of (BCCH) ARFCN to PS HO Radio resources
  - GP-052867, GP-052868 CRs 48.018 agreed
    - Extensions to TBSS to SBSS transparent container to allow the inclusion of not only the PS HO Command message
  - GP-052601, GP-052602 CRs 44.060 agreed
    - Reference to 45.010 for different network synch. cases

TEI-6

- GP-052514, GP-052515 CRs 44.060 agreed
  - CSN1 correction to dynamic allocation struct in Packet Timeslot Reconfigure message
- Repeated FACCH
  - GP-052604 CR 44.006 agreed
    - Using repeated downlink FACCH towards a pre-Rel6 MS not supporting it, a "REJ" frame can be sent by the MS on receipt of a repeated "I" frame. This can cause unnecessary retransmissions by the network of further "I" frames waiting for acknowledgement.
    - Handling of reject frame so that the network may ignore a REJ frame if it results from the reception of a repeated FACCH block from the MS
- Repeated SACCH
  - GP-052809, GP-052810, GP-052891 CRs 44.004, 005, 006 (plenary)
  - GP-052819, GP-052820 Draft CRs 24.008 endorsed. LS sent to CT1 in GP-052905
  - SAPI3 handling in the network is left implementaiton dependent

Other technical work – Rel-7 – DTM Handover (1/6)

- Stage 2 CR:
  - GP-052811 CR 43.055-Introduction of DTM Handover postponed
    - Common agreement on mechanisms used + failure scenarios
    - Editing work needed offline
    - Joint CR expected at GERAN#28
- Failure cases
  - GP-052764
    - General agreement on the proposal
    - Potential simplifications for stage 2 description to be considered
    - Re-use of existing timer expiry cause to be considered
    - Possibility for the SBSS to retry CS alone or both domains to be highlighted.
- Inter RAT Handover
  - Based on GERAN A/Gb mode to A/Gb mode case

- Criticality of PS handover
  - Proposal to include a critical/non-critical priority level for PS side: allows as high priority as for CS
  - Allows TBSS to NACK both CS, PS Handovers if critical PS cannot be allocated
    - Mimic the CS behaviour: if CS cannot be allocated, NACK is sent for both domains (HANDOVER FAILURE, PS HO REQ NACK)

Other technical work – Rel-7 – VGCS Enhancements (2/6)

- VGCS Enhancements
  - GP-052411 VGCS Reestablishment
    - Allow reestablishment of VGCS channels in cell(s) after drop of channels in case of e.g. equipment ”failure” covering these cell(s) such as BTS restart
    - No clear solution yet as to how to perform re-establishment (BSC/MSC)
    - Solution should account for other scenarios such as pre-empted case
  - GP-052807 CR 44.018 New talker information for pre-empted talker, agreed
    - Provide pre-empted talker with the talker priority or the identity of the current talker, so it is available when entering group receive mode
  - SMS to group call
    - Concept paper need to be presented to highlight how SMS transfer to group call is supposed to work and what the expected impact are on GERAN side
    - GP-052585 CR 44.018 postponed
    - GP-052586 CR 48.008 postponed
  - Fixed Rate AMR for VGCS
    - More discussion needed as to what codec mode to include. Note that AMR functionality **cannot** be provided
    - GP-052899 postponed

Other technical work – Rel-7 – Early TBF allocation (3/6)

- Early allocation of TBFs
  - GP-052598 CR 44.060 postponed
  - Any change needed at all to 44.060?
  - To be defined based on extended UL TBF mode
  - MS trigger for early TBF request needed
    - LLC/RLC interaction
  - Change of PFC, single TBF operation
    - Today:
      - Different PFC, same RLC mode: PRR: resource reallocation
      - Different RLC mode: tear down the TBF and re-start from idle
    - Possible improvement needed for change of RLC mode to avoid tearing down the TBF
  - 2-PAR to be used for MS request for early TBF allocation
    - Request in PRR
  - NW indication of support / assignment of early TBF to be investigated
    - Potential issue if MS requests early TBF whilst not knowing whether NW supports it?

Other technical work – Rel-7 – GERAN Evolution (4/6)

- GERAN Evolution
  - Event-based ack/nack
    - Clarify the potential increased radio resource usage in the uplink i.e. penalty
    - Clarify the event used in the MS for reporting
    - Clear gains shown in simulated scenarios
  - DTM Capabilities with DC
    - Would provide increased flexibility for DTM in downlink, and uplink. (uplink, provided DC were feasible in uplink)
  - B2DA
    - Concerns as to whether it could be exploited in real networks
    - Provides increased flexibility of radio resource usage to the penalty of USFs usage and MAC scheduling
    - Clarifications needed as to simulated EDA
  - FDDA not presented in GERAN2!

Other technical work – Rel-7 – Misc. (5/6)

- GP-052804 CR 43.055 endorsed
  - DTM stage 2 alignments with stage 3 (Rel-6)
- GP-052897 CR 44.060 agreed
  - Clarification to N3104 increment (contention resolution): according to RLC/MAC block for data transfer (avoid increment per RLC data block for MCS-7 to –9)
- GP-052490 CR 44.031 agreed
- GP-052896 CR 44.005 agreed
  - Clarify both SACCH, SDCCH are used for SAPI=3
- GP-052869 CR 44.060 postponed
  - Clarification to LQM interpretation
- "Fast RACH"
  - GP-052895 CR 44.018 agreed
    - Removal of Random Spreading at initiation of Immediate Assignment procedure
    - Terminated case (PS paging) not addressed

Other technical work – Rel-7 – (6/6)

- Introduction of GNSS
  - Confirmed opening plenary working assumption
- GP-052903 CR 44.031 Means for selecting between different position determination approaches
  - Postponed
  - Companies encouraged to provide feedback asap
- GP-052550 Discussion paper on ongoing improvements and their applicability for conversational services

Outgoing LSs

- GP-052751 LS to SA2 on Alignment of information element in BSS PFC procedure messages
- GP-052904 LS to CT4, RAN3 on Inter-RAT PS Handover Improvements
- GP-052805 LS to SA3 on Security key set change on PS handover
- GP-052905 LS to CT1 on Addition of Repeated SACCH capability indicator

Future meetings

• GERAN2#27	08-10 Nov 2005	Atlanta, USA
• GERAN2#28	17-19 January 2006	Brussels, Belgium
• **GERAN2#28bis**	**20-24 March 2006**	
• GERAN2#29	25-27 April 2006	
• **GERAN2 #29bis**	**22-26 May 2006**	
• GERAN2#30	27-29 June 2006	
• GERAN2#31	05-07 September 2006	Denver, USA
• **GERAN2#31bis**	**16-20 October 2006**	
• GERAN2#32	14-16 November 2006	Sophia Antipolis, France