Canadian Evaluation Group

Venkatesh Sampath
Chair, Canadian Evaluation Group (CEG)

www.IMT-Advanced.ca

Overview

- Background
- Evaluation approach
- Additional methods
- Questions

CEG - Background

- Started in 1996 – under the auspices of the Canadian National Organisation (CNO) process
- 1996 Objective: to evaluate candidate Radio Transmission Technologies (RTTs) submitted to ITU-R and approve as IMT-2000
  - Of 15 RTTs submitted (10 terrestrial, 5 satellite), the 10 terrestrial were evaluated
  - Procedure was guided by ITU-R M.1225
  - Evaluated only the most important criteria (priority ‘G1’), and the attributes associated with each criterion

CEG – Background (2)

- Re-convened in 2007
  - Carried out evaluation of IP-OFDMA (terrestrial RTT)
  - Procedure similar to 1996
- Results Overall: IMT-2000 has 6 terrestrial interfaces (ITU-R M.1457)
- Web-site: www.IMT-2000.ca

CEG – today

- Continues under the auspices of the CNO
- Web-site: www.IMT-Advanced.ca
- Call to participate has been issued
  - Invited Canadian Industry & Academia (Universities, Research Institutions)
- Observers: Regulator – Industry Canada, CRTC (Canadian Radio Television & Telecommunications Commission)

CEG – evaluation

- Anticipates evaluating:
  - LTE-Advanced submission
  - IEEE P802.16m submission
  - Others …?
    - Both FDD and TDD modes/components
- Participants
  - Manufacturers, Service providers, Universities and Research Institutions

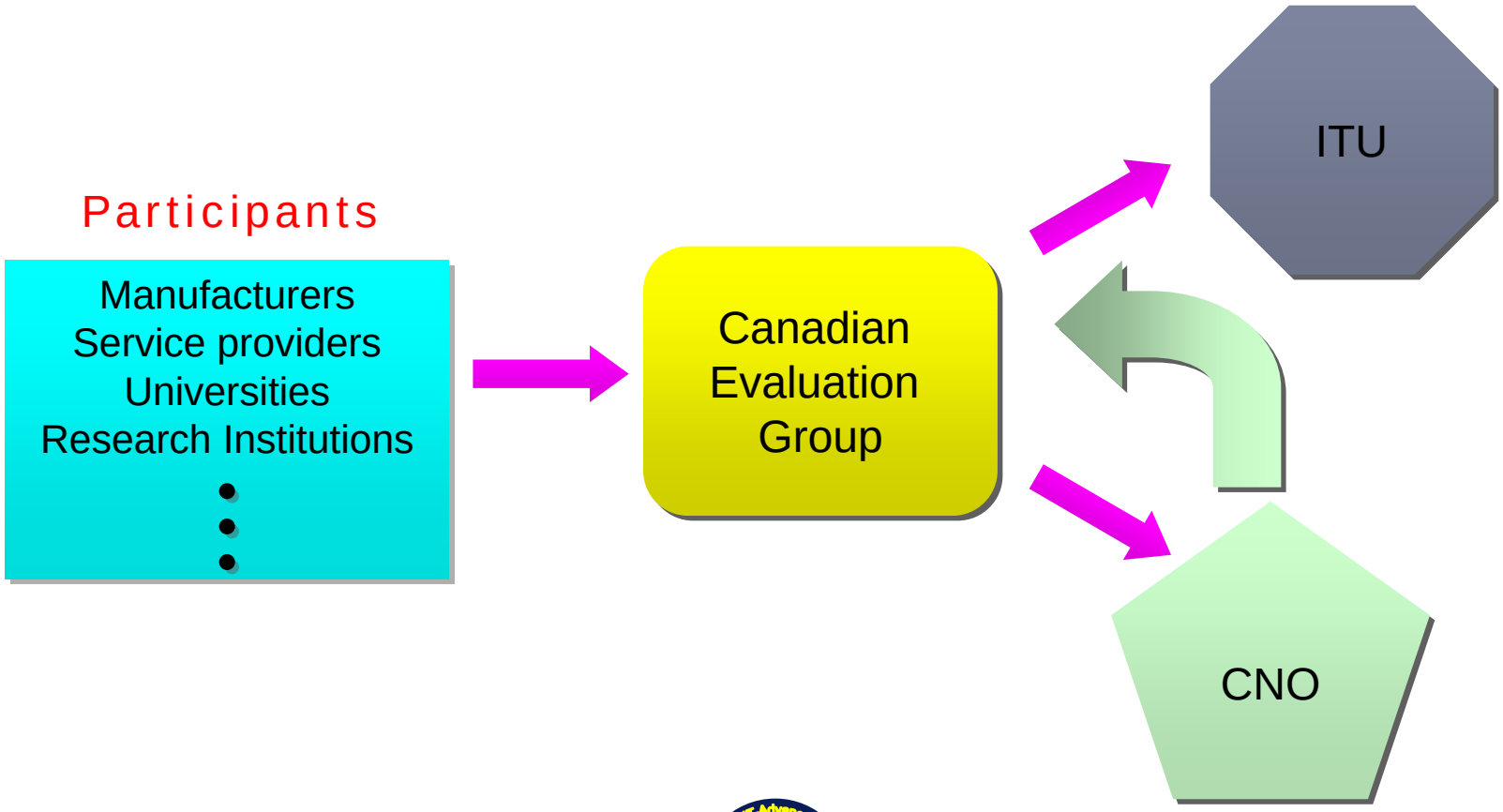
CEG – (tentative) procedure

- Start with the self-evaluations
  - Description template
    - Gain an understanding of the radio interface
  - Compliance templates
    - Verify
  - Evaluate parameters as explained in Report M.2135
    - Through “inspection,” “analysis” and “simulations”
  - Contributions on the above evaluations are expected from participating organisations

CEG – (tentative) procedure (2)

- Synchronise/Calibrate
  - Assumptions used in the simulators
    - Within CEG (perhaps externally as well)
- Generate results and compare them
    - Internally (between CEG participants)
    - Externally (between evaluation groups)
- Produce the Report, approve at CNO, forward to BR

CEG – process


Participants
Manufacturers
Service providers
Universities
Research Institutions
Canadian Evaluation Group
ITU
CNO

CEG – additional methods

- No additional methods identified at this time
- Will inform ITU, EGs of any new developments
  - via SWG Co-ordination
  - IMT-Advanced web-site
    - www.IMT-Advanced.ca

CEG - questions

- Identify proponent(s)
- Identify contact for each submission (preferably one)
  - for Questions, clarifications

CEG – update (3GPP workshop) – 17-18 Dec 2009, Beijing

- After Dresden meeting of WP5D, held two meetings (conference calls)
- Bringing all members upto speed (eval. procedure, Reports M.2133 thru' M. 2135, candidate proposals, etc.)
- Getting commitment from members on individual parameters to be evaluated
- Next meeting (face-to-face) – 7th Jan '10

CEG – update (3GPP workshop) – 17-18 Dec 2009, Beijing

- "Tentative" procedure is now way forward
- Milestones
  - Interim report – Feb meeting of WP5D
    - Some (perhaps all) Inspection parameters
    - Calibration of assumptions and synchronization of approach to implement simulations
  - Final report – June meeting of WP5D
    - Finalize Inspection parameters if any
    - Finalize Analysis and Simulation parameters