The 3GPP vision

Asok Chatterjee, Ericsson Inc.
Chairman, 3GPP Project Co-ordination Group
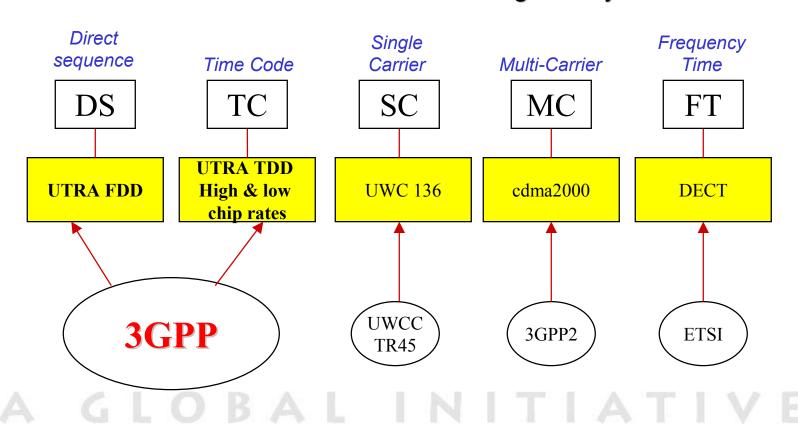
ITU Seminar, Ottawa - May 2002

IMT-2000

The 5 IMT 2000 terrestrial interfaces agreed by ITU-R

Direct sequence — **DS** — **UTRA FDD**

Time Code — **TC** — **UTRA TDD High & low chip rates**

Single Carrier — **SC** — **UWC 136**

Multi-Carrier — **MC** — **cdma2000**

Frequency Time — **FT** — **DECT**

3GPP

UWCC TR45

3GPP2

ETSI

A GLOBAL INITIATIVE

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What is 3GPP ?

3GPP is:

A collaborative agreement between Standards Development Organizations (SDOs) and other related bodies for the production of a complete set of globally applicable Technical Specifications and Reports for:

- a 3G System based on the evolved GSM core network and the Universal Terrestrial Radio Access (UTRA), FDD and TDD modes;

- the Global System for Mobile communication (GSM) including GSM evolved radio access technologies

Collaboration between 3GPP & 3GPP2

- Considerable ad hoc collaboration as many companies active in both groups

- Joint meetings since 1999 to address interoperability, roaming and harmonization needs, centred on:
  - Radio access
  - Terminal design
  - Core network

- Harmonization also being enhanced by adoption of external common specifications
  - Notably, IETF RFCs (approx. 40)
  - RFC 3113 lays down basis of co-operation between 3GPP and IETF

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Collaboration between 3GPP & 3GPP2

- 1999 "Hooks & Extensions" workshops
    - Interoperability between radio access technologies
    - Dual mode terminals
- 2001 Harmonization of HSDPA (3GPP) and 1xEV-DV (3GPP2)
    - Various issues noted:
        - terminal design; services; spectrum; implications of All-IP
    - Initial attention on
        - common definitions for channel models and traffic models
        - common physical requirements for future terminal designs
    - Joint meeting of core network experts April 2002
        - All-IP core network harmonization
        - already significant commonality between 3GPP and 3GPP2 core networks
    - Joint meeting of radio experts in June 2002
        - radio-related aspects

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