

Global Symposium for Regulators Geneva 3-5 December 2001

3G Licensing

Workshop



Panelists:

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Moderator:

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3G Licensing Workshop

- Status
- Spectrum & Standards
- Strategies & Methods
- Panel discussions



3G Licenses

[Argentina]

Belgium

Austria

Monaco

(Israel)

Australia

(Brazil)

Norway

(Lebanon)

Hong Kong

(Chile)

(Croatia)

Poland

(S. Africa)

Japan

(Peru)

(Czech R.)

Portugal

(Malaysia)

(Uruguay)

Denmark (Russia) New Zeal.

(Venezuela)

Finland (Slovenia) Rep. Korea

[USA]

France

(Slovakia)

Singapore

Germany

Spain

Thailand

Greece

Sweden

(Ireland)

Switzerland

Isle of Man

The Netherlands

Italy

United Kingdom

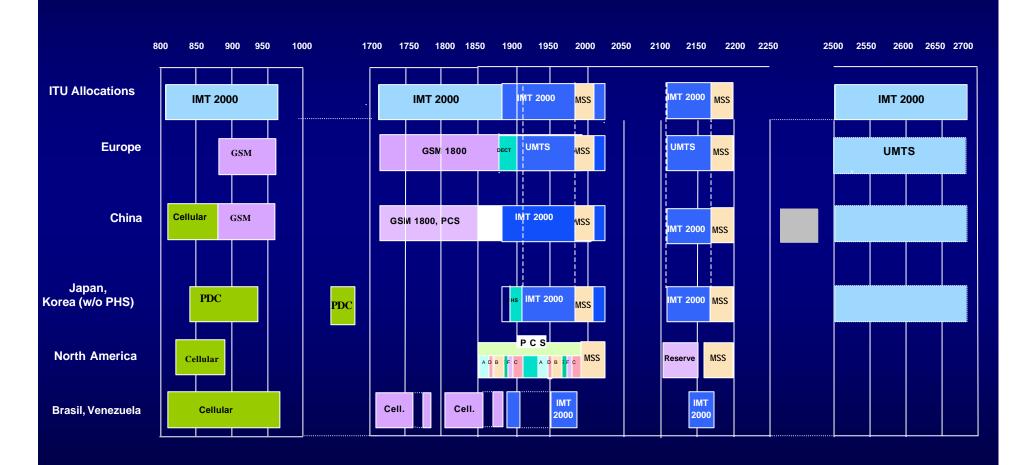
Liechtenstein

Luxemburg



IMT-2000 Frequency Spectrum after WRC-2000

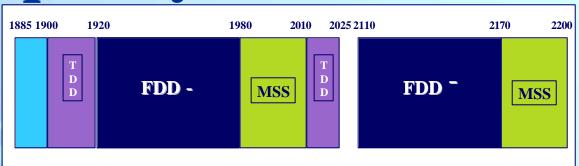




ITU Radio Regulations: 750 MHz of spectrum identified for IMT-2000

Spectrum Requirements

• Frequency bands:



Allocation per operator:

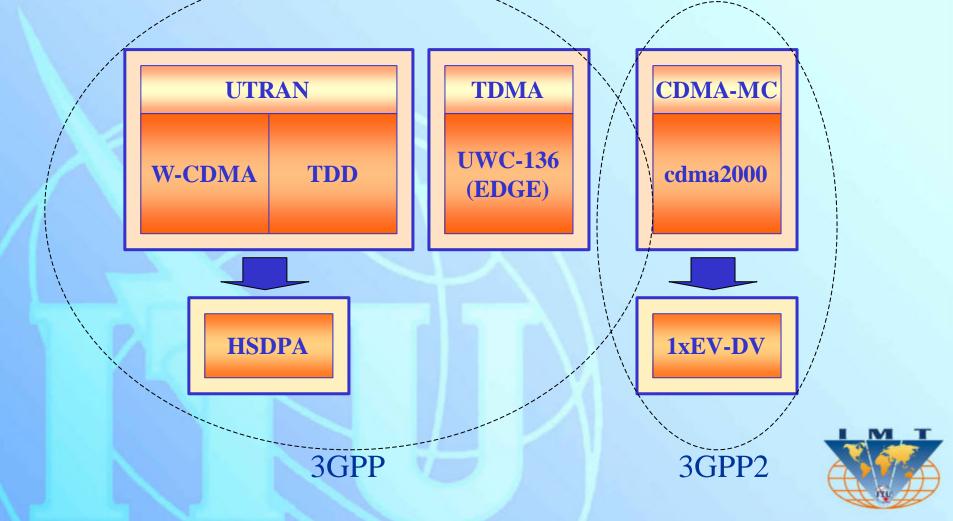
2X15 MHz (FDD) + **5 MHz (TDD)**

- Guard bands
- Harmonization schemes



3G Standards

IMT-2000 Radio Interfaces



Strategies & Methods

- Number of licenses
 Service requirements, spectrum, competition, etc.
- Selection process
 Auction, beauty contest, hybrid method.
- Pricing of licenses
 Value definition, up-front vs. deferred payments, etc.
- Licensing obligations & conditions Roll-out & coverage, roaming, ownership (MVNOs), network sharing, etc.
- Evolution strategies



3G Licensing in Hong Kong

"Hybrid" Licensing Process

- Pre-qualification exercise + Spectrum auction on Royalty Percentage
- 4 licenses were granted.

Spectrum Auctioning Approach

- Annual Spectrum Utilization Fee over the 15-year license period.
- Annual fee = The higher of "royalty amount" or "minimum annual fee"

Open Network Access

 3G licensees must open at least 30% of their network capacity for use by non-affiliated service providers (e.g. MVNO, content or service providers).

Technology Neutral Licenses

- 2G spectrum are allowed to be re-farmed for 3G services
- 3G licenses are allowed to be upgraded to 4G, etc. in future



Swiss 3G Licencing Process

Objectives:

- Making available varied, efficient, high-quality, nationally and internationally competitive telecommunications services to private individuals and the business community (Telecom. Law Art.1).
- Allocating and assigning scarce national resources (such as spectrum) to achieve economic efficiency.
- Assigning spectrum licences in accordance with the principles of objectivity, non discrimination and transparency (Telecom. Law Art.24).

Procedure:

Step 1: Control of the compliance with legal requirements and preselection criteria for the award of a licence P Participation conditions to the auction.

Step 2: Auction.

Results:

4 IMT-2000 / UMTS-licences with a frequency assignment of 2 x 15 MHz FDD plus 5 MHz TDD have been awarded to the 3 existing 2G operators and to one new entrant.





PRESENT SITUATION IN LATIN AMERICA

