



HAKOM




**Radio spectrum strategies – necessity,
opportunity, involvement**

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**Contest design for licensing the 800/2600
MHz bands – a regional approach**




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Introduction

-  Regional approach important
-  **Timing** and **harmonisation** crucial
-  Croatia – geographical position and shape in combination with propagation characteristics of lower bands – dependance on neighbours actions

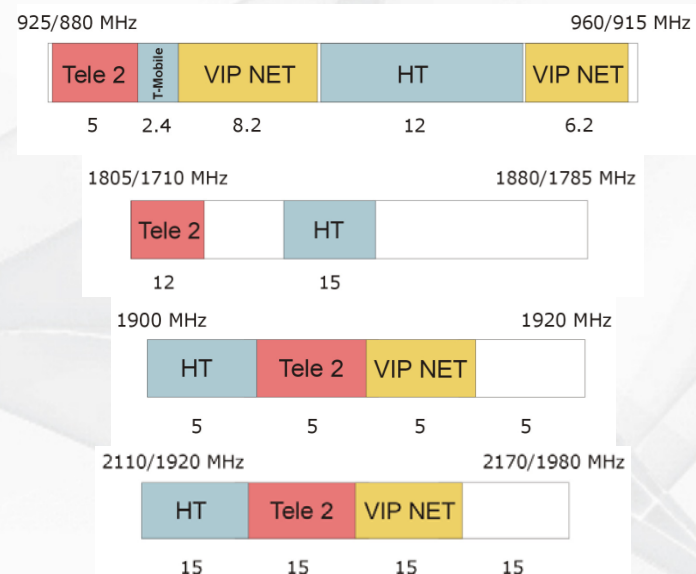


800/2600 MHz – current situation

-  ASO finalized in October 2010 – spectrum available on national level
-  2600 MHz – available on national level
-  National Table of Allocation – IMT - auction






Mobile operators – current situation

3 mobile operators using 900/1800/2100 MHz bands








Technology neutral licenses until 2024 – 3G in use in 900/2100 MHz bands

800/2600 MHz – Auction

-  Auction – transparent and non discriminatory option
-  Beauty contest – not enough transparent, operators preference
-  Parameters for auction still **under consideration**
-  Spectrum packaging – possible combination of 800/2600 MHz – aggregated license – also possibility to combine the unused part of the 1800/2100 MHz band
-  5 MHz blocks (paired or unpaired)

800/2600 MHz – Auction - conditions

-  Current market situation – no constraints on bidders
-  Pre-selection conditions – only administrative and financial
-  No favourisation of existing operators or newcomers – bids the only criteria
-  No spectrum cap for existing operators
-  Obligation to cover rural areas and areas that are not commercially interesting

800/2600 MHz – Auction - format

SMRA (Simultaneous Multiple Round Auction) variations

- Simple and understandable format, clear outcome
- Aggregation and fragmentation risk – bidder can possibly get only a part of wanted spectrum which is not continuous

CCA (Combinatorial Clock Auction)

- Bids for wanted bandwidth, not specific blocks
- Problem – different values of different frequency blocks

800/2600 MHz – Auction - organization

-  Electronic auction – web site
-  Bidders allowed to bid from their premises
-  Timing – possible 2012 – dependant on policies of neighbouring countries in order to assign the spectrum on national level
-  **Harmonisation** with neighbouring countries



Thank You!