

Joint EC - CEPT workshop of WRC-15, 10 December 2013, Brussels

Spectrum allocations to the Mobile service

Taking a balanced approach

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**1. IN EUROPE, THE CASE FOR ADDITIONAL
SPECTRUM ALLOCATIONS TO THE MOBILE
SERVICE IN 470-694 MHZ HAS NOT BEEN
MADE**

USE OF EXISTING SPECTRUM ALLOCATIONS FOR THE MOBILE SERVICE TO BE OPTIMISED FIRST

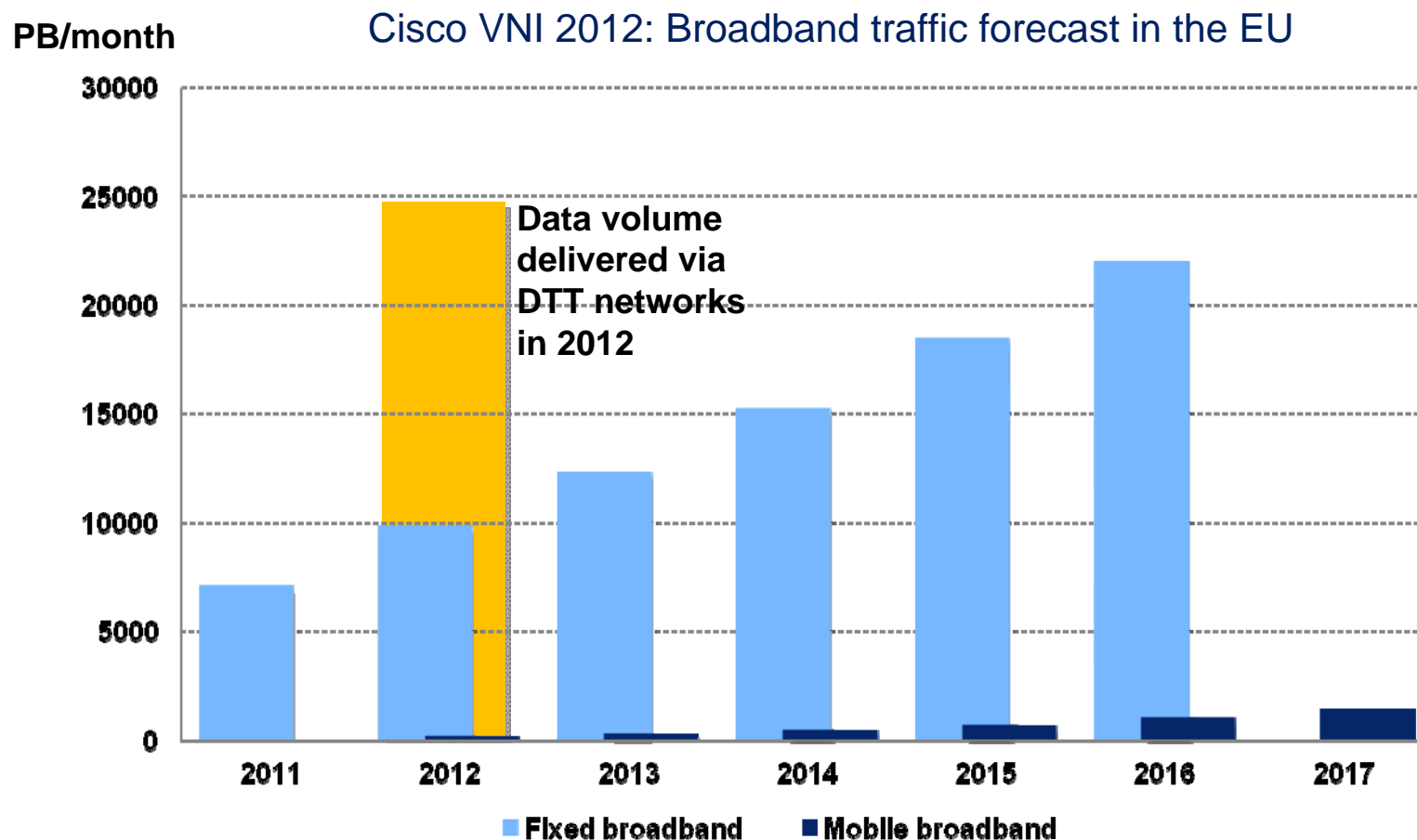
RSPG Opinion on WBB:

Broadband access	In use/available for WBB (MHz)	Potential for WBB (near term) (MHz)	Medium term potential (>2015) (MHz)	Possibly in very long timeframe
Terrestrial	990.00	140.00	566.00	224.00
Satellite	173.00	0	0.00	0
WIFI	538.50	0	320.00	0
Total	1701.50 MHz	140.00 MHz	886.00 MHz	224.00 MHz

The RSPG requirement of 1200 MHz is already exceeded !

BROADBAND NETWORKS WILL NOT BE A SUBSTITUTE FOR TERRESTRIAL BROADCAST NETWORKS

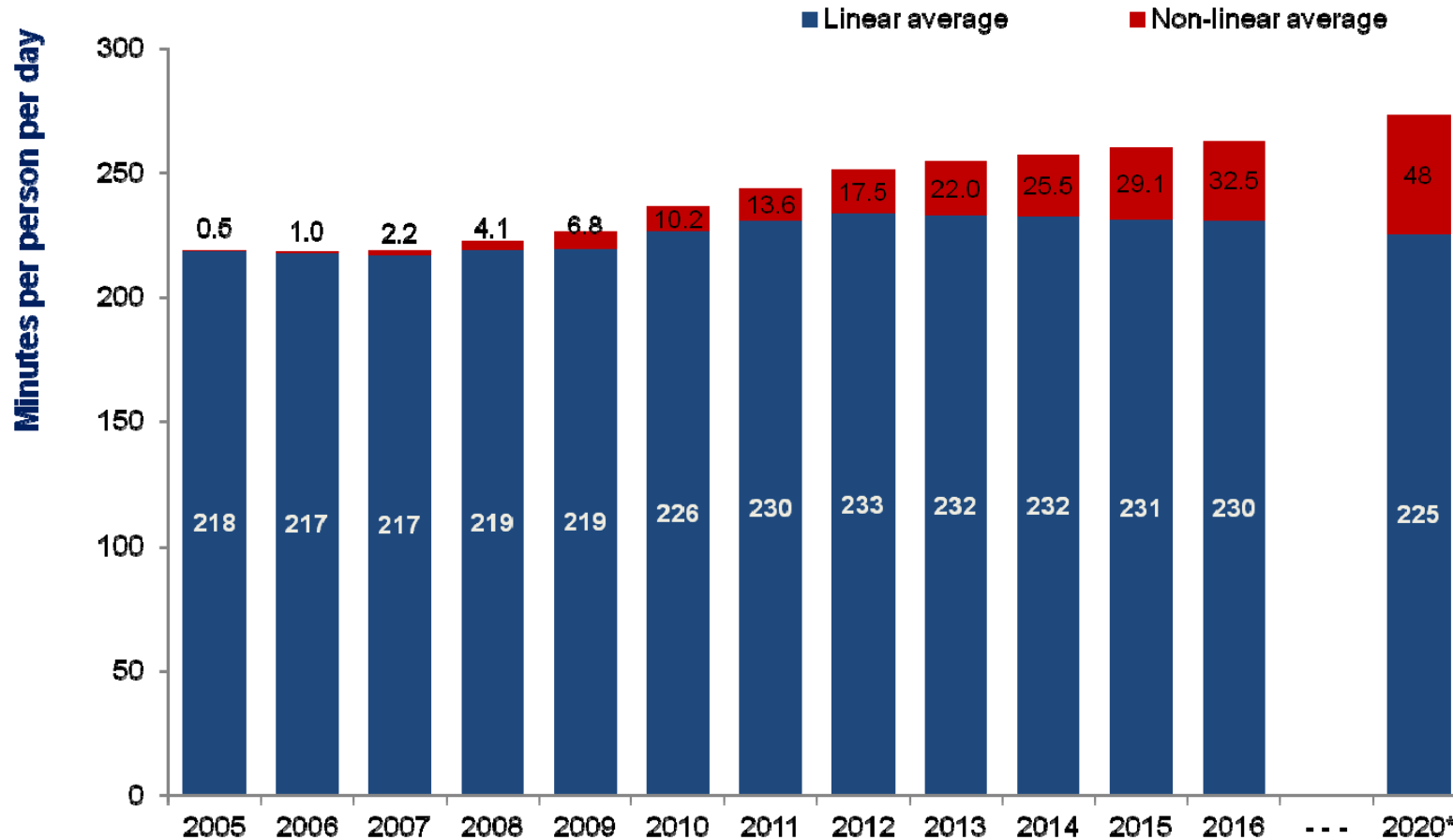
Data volumes delivered via DTT compared to the Internet:



2. IN EUROPE, DTT NEEDS THE 470-694 MHZ BAND

LINEAR TV REMAINS DOMINANT

Evolution of linear and non-linear TV viewing
(minutes per person per day) (average in EU big 5)



Source: IHS – ScreenDigest: Cross-platform Television Viewing Time FY 2012

Note: Forecast from 2012 / * 2020 forecast by EBU

DTT NEEDS THE SPECTRUM TO EVOLVE

It has been confirmed by :

- Consumers: terrestrial has 46% penetration in the EU
- European regulators reply to RSPG and ITU questionnaires
- RSPP inventory on spectrum demand. “Analysis of technology trends, future needs and demand for spectrum”, A. Mason for the EC:

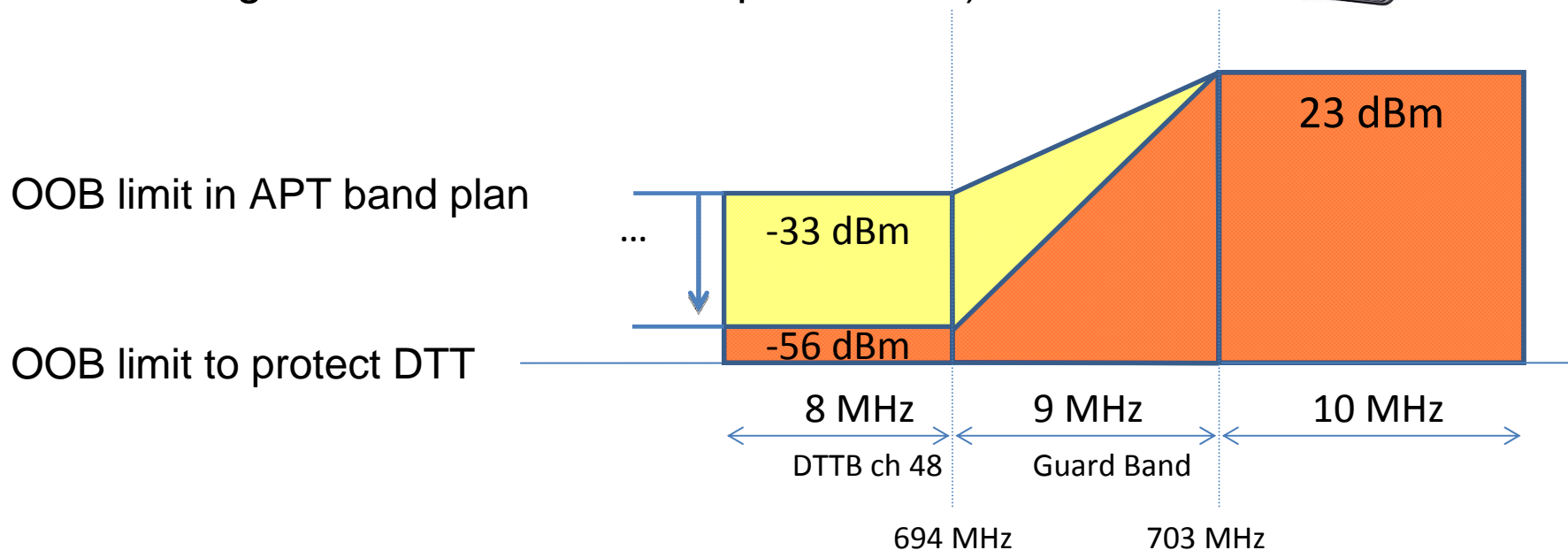
Technology trend	Short term	Medium term	Long term
New digital video formats	++	++	++
Broadcasting encoding and transmission developments	=/+	=	--
Alternative broadcasting platforms	-/=	-	-
Analogue switch-off / digital switchover	-/+	-	-
Single-frequency network (SFN)	-/=	-	-
Mobile TV / DVB-H	-	-	-
OVERALL ASSESSMENT	+	+	+

Consumer and community trend	Short term	Medium term	Long term
Growing linear TV consumption	=	=	=
Growth in the number of TV channels	+	=	=
Adoption of DTT	=	=	=
Take-up of DAB	=	= / +	= / +
Adoption of HDTV / UHD TV / 3DTV	+	++	++
Level of adoption of over-the-top (OTT) services and impact on DTT	=	=	=
Number of MUXs	+	+	+
Digital TV switchover in Central and Eastern Europe (CEE)	=/+	=	=
Technology migration path/simulcast (higher standards & compression)	+	++	++
OVERALL ASSESSMENT	+	+ / ++	+ / ++

3. DTT NEEDS TO BE PROTECTED FROM INTERFERENCES WHEN USING THE 694-790 MHZ BAND BY THE MOBILE SERVICE

THE APT 700 MHZ BAND PLAN DOES NOT SUFFICIENTLY PROTECT DTT

1. More stringent limits are needed together with additional mitigation techniques (e.g. additional filtering in DTT receivers to improve ACS)



2. It does not facilitate co-sharing with DTT in those countries that want to maintain DTT in the 700 MHz for a certain time

VIEWS ON THE WRC-15 AGENDA ITEMS 1.1 AND 1.2

- EBU does not support the allocation of the 470-694 MHz to the mobile service
- DTT below 694 MHz should be protected from harmful interference from mobile services in the 694-790 MHz band, taking into account the GE06 Agreement.
- Technical conditions applicable to mobile use of the 700 MHz band (such as OOB emission levels and guard bands) need to be included in a ECC Decision and in an EC Decision as done for the 800 MHz band

THANK YOU
FOR YOUR ATTENTION !

QUESTIONS?

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