

EUROPEAN MICROWAVE WEEK 2015

SIX DAYS • THREE CONFERENCES • ONE EXHIBITION

PALAIS DES CONGRÈS, PARIS, FRANCE
SEPTEMBER 6 - 11, 2015

Exhibition Opening Hours:

- Tuesday 8th September: 9.30 – 18.00
- Wednesday 9th September: 9.30 – 17.30
- Thursday 10th September: 9.30 – 16.30

Changes in the PMSE Spectrum

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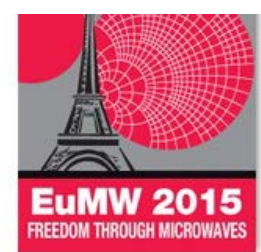
our prediction for PMSE spectrum demand

Norbert Hilbich

Sennheiser electronic

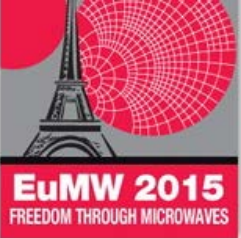
Norbert.Hilbich@sennheiser.com

WM08 - PMSE Workshop at EuMW2015



Agenda

- Spectrum sales in the UHF-TV range
- Threat for wireless productions
- Economic impact
- Spectrum for PMSE



PMSE Applications



Film



Recording



Theater, Musicals



Broadcast, Sports



Live Music



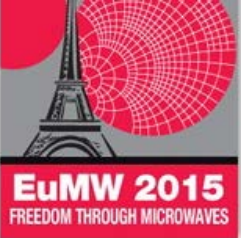
**Wireless
Monitoring**



Conferences

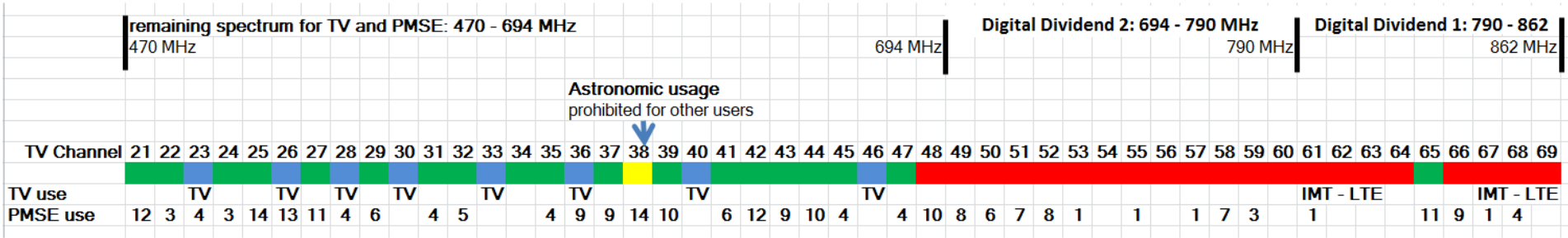


Visitor Guidance



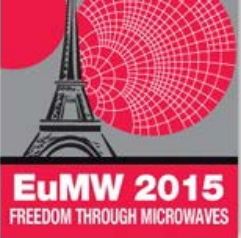
Spectrum Sales

- Governments are keen to sell spectrum
- Terrestrial TV and PMSE suffer



Example: State Election Hamburg February 2015

8 local TV Multiplexes plus 255 PMSE units in the UHF-TV range – in one Hall!



Economic Background



Tibor Navracsics

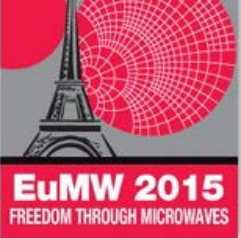
European Commissioner
for Education, Culture,
Youth and Sport

"Cultural and Creative
Crossovers" Riga, March
12th, 2015

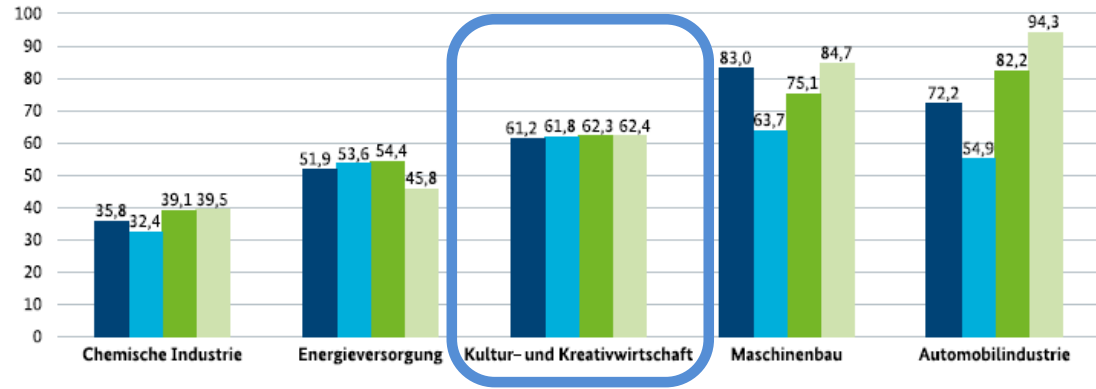
Culture contributes to our identity as Europeans, it fosters mutual understanding and participation, and it is an important factor in defining Europe's place in the world.

We are also aware of the **considerable economic activity culture generates**: approximately **4.4 % of Europe's Gross domestic product**. And **3.8 % of its workforce** are employed in this sector.

But we also know that those figures could be higher, that Europe should do more to harness culture's potential to the full. **There is a lot of untapped potential in the cultural and creative sectors for boosting economic growth and job creation, and for improving European citizens' well-being."**



Economic Background

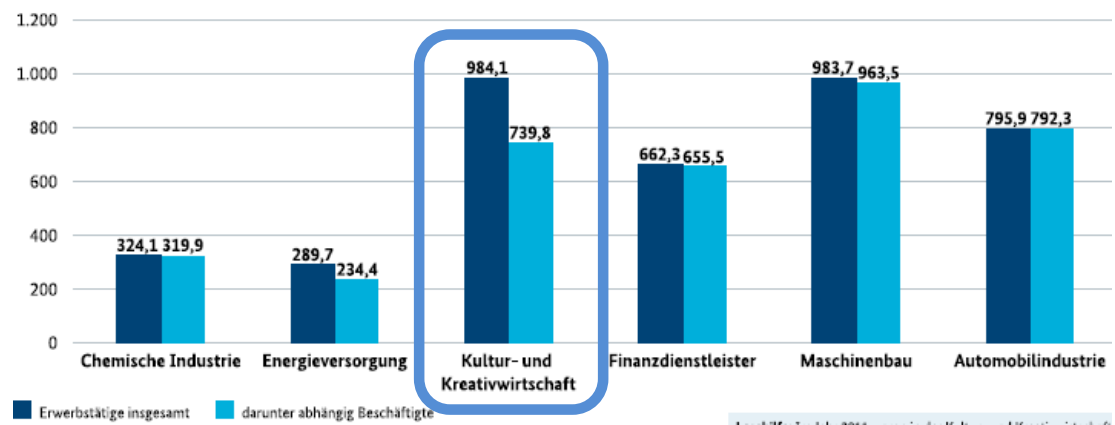


Germany – Study of the Federal Ministry of Economy 2008-2011:

3rd strongest contributor to GDP:

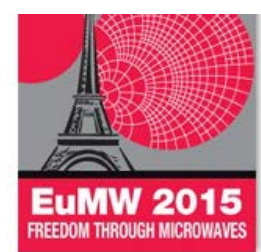
Culture and Creative Industry

The major communication tool that supports these industries: PMSE – Spectrum!



No 1 in Jobs:

Culture and Creative Industry

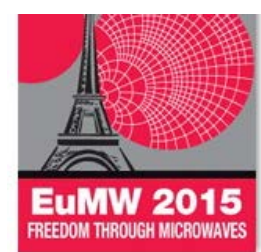


Spectrum for PMSE

Increasing PMSE usage:

- guarantees speech intelligibility
- anybody can easily handle it
- adds flexibility in arrangement and usage
- avoids extensive cabling
- reduces production costs

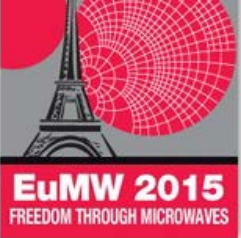
Needed: sufficient spectrum



Spectrum for PMSE

To maintain daily operations

- Secure 470 – 694 MHz until 2030 – according to EU – Lamy Report
- Open the ranges 1.350 – 1.400, 1.492 – 1.525 until 2030 – at least
- Protect PMSE against interferer: lift PMSE status to Primary user
- Allocate spectrum to Large Scale Events



Spectrum for PMSE

