







## What does the DD mean?

OECD Communica

The "digital dividend" is the opportunity to improve and expand services, promote better digital coverage and improve access to electronic communication networks

> with much of the interest in the spectrum focused on providing wireless internet access.



- Estimated that Digitalisation reduces spectrum required for *today's TV services* by around 50 – 70%
- But, any spectrum dividend depends on factors such as:
  - The number of TV channels
  - Picture definition and quality
  - Coding technology
  - Coverage and reception mode

AGEIS IDATE Final Report on Spectrum Management in the Field of Broadcastin

SD and/or HD TV: 3D	
coming	
Spectrum suited to covering rural areas (longer range at lower cost - fewer base stations)	200
Ibid	wimax
	Spectrum suited to covering rural areas (longer range at lower cost - fewer base stations) Ibid

Potential uses of the DD (2)			
SAB/SAP (e.g. radio microphones)	A variety of users currently use the band for wide range of applications		
Public Service-national security and emergencies	Wireless broadband communication for security forces, emergency services and like operations		
Cognitive technologies	A family of technologies, now under development that will be able to assess whether frequencies are in use, and if not, transmit on a licence- exempt basis.		
Testing and Innovation reserve	Either reserving spectrum specifically for experimental purposes, or not making it available until a later date		

How to use the released spectrum?

Choices have to be made as to how to use the available capacity: more television services, high-definition, mobile television, electronic programme guides, subtitling, additional language services, or other data applications.



- Give traditional TV breathing space to counter erosion of market share by multichannel providers
  - Launch new channels and offer packages similar
    - to cable and satellite providers
  - Level quality playing field by broadcasting in HD

























- Allocation of 790 862 MHz for mobile communications means the 800 MHz band will no longer be available for Programme Making and Special Event (PMSE) production equipment, in particular wireless microphone.
- Alternative spectrum must be found for affected services

## Challenges with Reallocation

 Conflicts and competition for spectrum allocation among mobile TV services

 Conflicts between mobile TV and other digital broadcasting and telecommunications services (such as datacasting, broadband wireless access, wireless camera equipment, etc) when they operate in the same frequency bands.





