

## Workshop 3:

# MPEG-4 Version 2 Audio: What is it about ?

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# Why This Workshop ?

- MPEG Audio standards: A success story
- Latest member of MPEG standards family: MPEG-4, published 7/99 (Version 1)
- Workshop about MPEG-4 Version 1 Audio at 106th AES Convention (Munich)
- Second revision ("version") of MPEG-4 standard is now ready to go - will be published in 3/00
- It's time for an update ...



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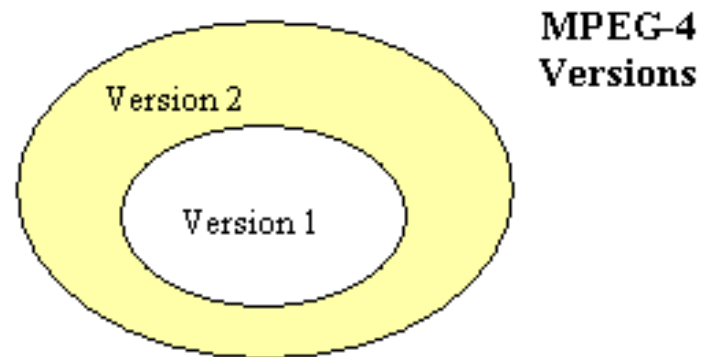
# Questions To Be Answered ... (1)

Why is there a V2 ?

- Work on MPEG-4 continued for Version 2

Versioning  
Concept

- Existing tools and profiles from Version 1 will not be replaced in Version 2
- Technology is added to MPEG-4



- MPEG-4 Version 2 is a backward compatible extension of Version 1.

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## Questions To Be Answered ... (2)

What is it?

- What is MPEG-4 Version 2 Audio about ?
- What novel functionalities can MPEG-4 Version 2 Audio give you ?

New topics  
addressed by V2

- Error Robustness
- Small step scalability
- Low Delay Audio Coding
- Environmental Spatialization
- Parametric Audio Coding



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# The Presentations ...

MPEG-4 Version1

Bernhard Grill  
*Fraunhofer IIS, Germany*

Error Robustness

Sanae Hotani  
*NTT DoCoMo, Japan*

Small Step Scalability

Sang-Wook Kim  
*Samsung AIT, Korea*

Low Delay Coding

Jürgen Herre  
*Fraunhofer IIS, Germany*

Spatialization

Jean-Marc Jot  
*Creative Advanced Tech Center, USA*

Parametric Coding

Heiko Purnhagen  
*University of Hannover, Germany*

