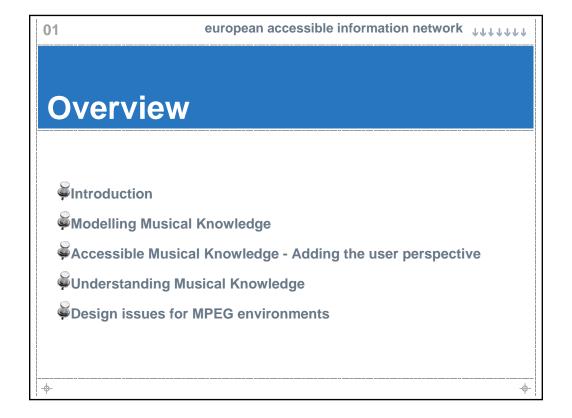
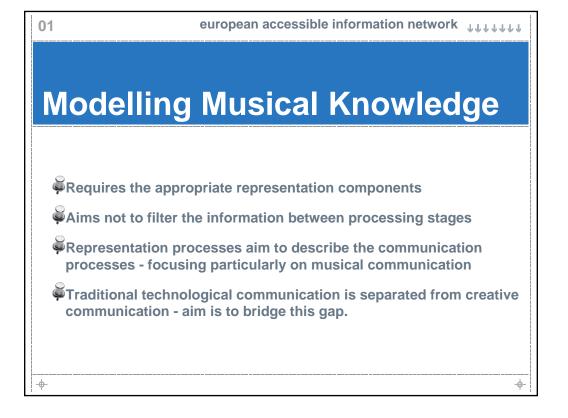
Meaningful mapping:
Appreciating music through accessible structures

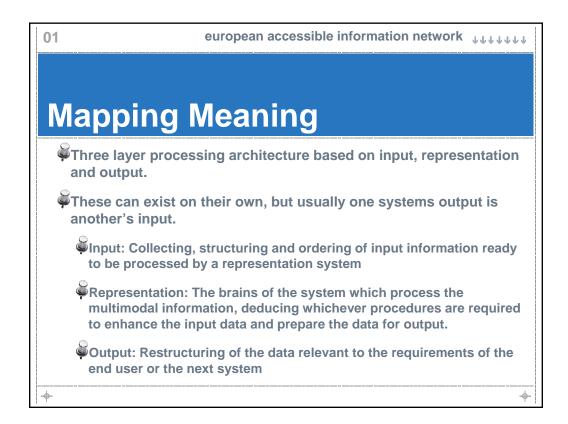
David Crombie, Roger Lenoir, Neil McKenzie, FNB, The Netherlands

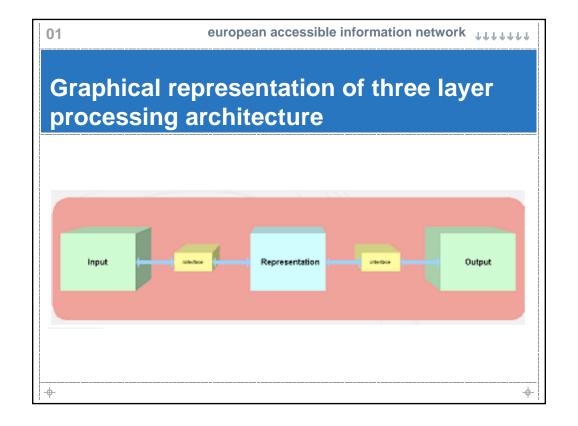


Introduction

Music is a rich corpus of data meaning different things to different people
Requires communication between several participants(Virtual or actual)
Question of modelling communication and interaction







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Meaningful mappings -Interfacing the layers

- Good interfacing results in high data integrity with data loss kept to a minimum
- Raises the model to a new level of complexity, as interfacing has to be implemented at a fundamental level throughout the system
- Interfacing objects can be seen as axon's built on the same three layer principle which ensure that the correct perspective is taken on input information for the "accesor" to use the information entity in the next layer of the structure.
- This requires that the information isn't structured based on it's primary use, but on the input information, such that no data is lost in translating secondary or future uses. i.e. Accessibility.

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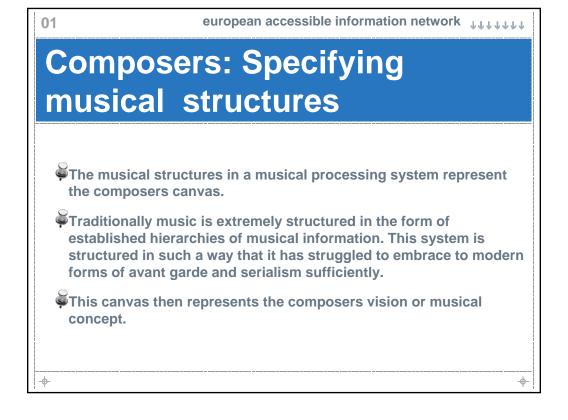
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Accessing Musical Knowledge

- User requirements for Musical Knowledge processing architectures are implemented within the input and output layers of the architecture.
- These user requirements have to take in the multiple perspectives and viewpoints which are taken on music.
- Musical knowledge can be considered to be represented implicitly and explicitly using procedural descriptions.

The User Perspective

Composers: Specifying musical structures
Performers: Interpreting musical structures
Distributers: Providing interpreted musical structures
Audience: Digesting interpreted musical structures



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Performers: Interpreting musical structures

- Building on a frame of reference, performers interpret the musical structures which the composer has put down on paper.
- The element of freedom dictated by the composer, genre or environment dictate to what level the performer can add his own interpretation to the mix
- The quality of this interpretation represents the level of the performer's virtuosity.

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Distributers: Providing interpreted musical structures

- Distribution of the combined vision's of the composer and the performer.
- This is combined with marketable elements from the distributer such as choice of venue, choice of performers and marketing and distribution choices
- All these combined criteria provide an interface between the content creators and the audience

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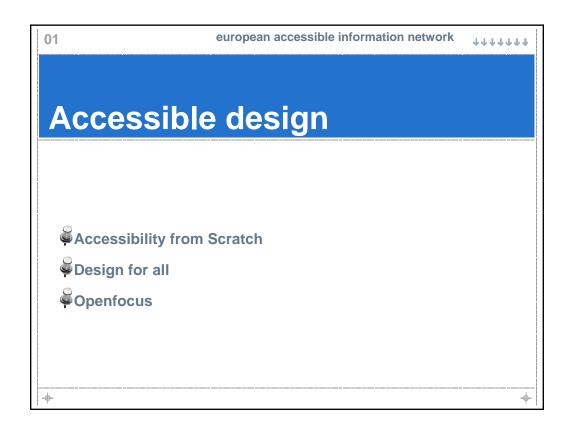
Audience: Digesting interpreted musical structures

- The audience have their own personal set of user requirements which dictate which distributed offerings they will choose to buy/listen to.
- Their levels of respect and experience for particular composers and performers.
- The communities and environments which they act in and which influence their opinion.

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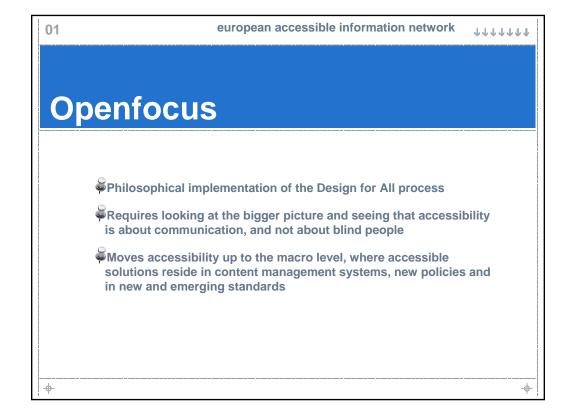
Understanding Musical Knowledge

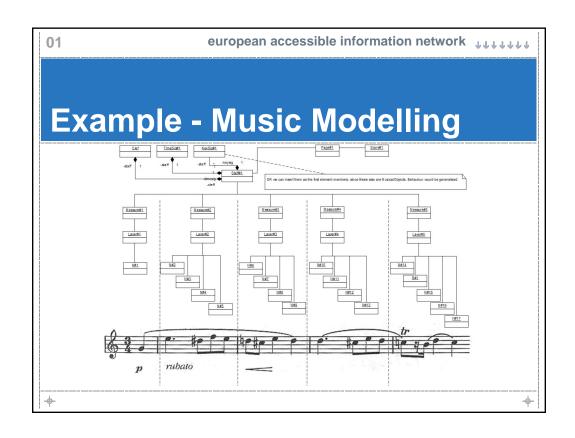
- There are many different perspectives on accessing musical content, each use and user have their own particular perspective on how they structure and interact with the structured musical information
- A user's experience can be represented by modelling their taste, choice and actions relating to interacting with the musical structures
- All this modelling and interfacing represents the adaptability that is required when dealing with musical information processing environments. This in itself requires procedures for dealing with multiple viewpoints which can yield representation fo various users views.













Milestones			
		Planned date	
M.0	Start of the CE	July 29 2005	
M.1 M.2	Delivering of the missing input material	October 2005 Š 74 th	
		MPEG Meeting	
	Specification of use cases and test of present solution	October 2005 Š 74 th	
		MPEG Meeting	
M.3	Specification of changes to SMR Reference software	October 2005 Š 74 th	
		MPEG Meeting	
M.4	Workplan for software to implement changes	January 2006 Š 75 th	
		MPEG Meeting	
M.5	CE final report	January 2006 - 75 th	
		MPEG Meeting	
		MPEG Meeting	



Future Work

Possible follow up core experiment which implements the notions.

Embracing standards by offering structured text scores in MPEG 4 structured audio.

Further lobbying for use of accessible and open standards in information stream through projects such as EUAIN

Encouraging technology uptake within specialist organisations

