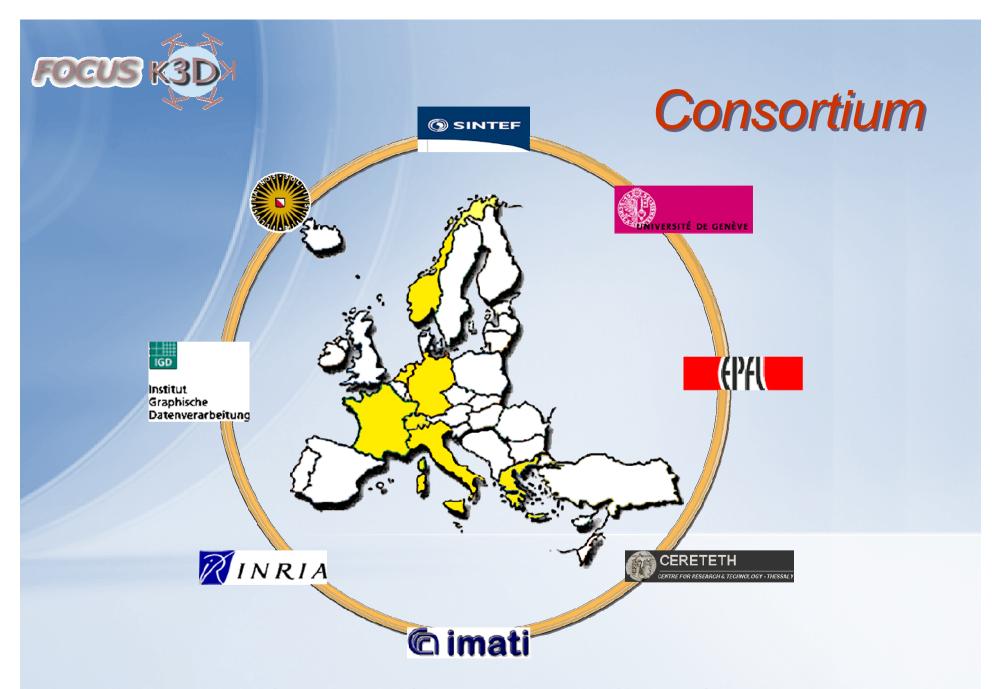
FOCUS K3D

FOster the Comprehension, adoption and USe of Knowledge intensive technologies for coding and sharing 3D media content in consolidate and emerging application communities

Bianca Falcidieno CNR IMATI Genova Italy

- Coordination Action in the area of semantic coding of 3D media content
- 8 Partners
- Starting date: 1° March 2008
- Duration: 2 years



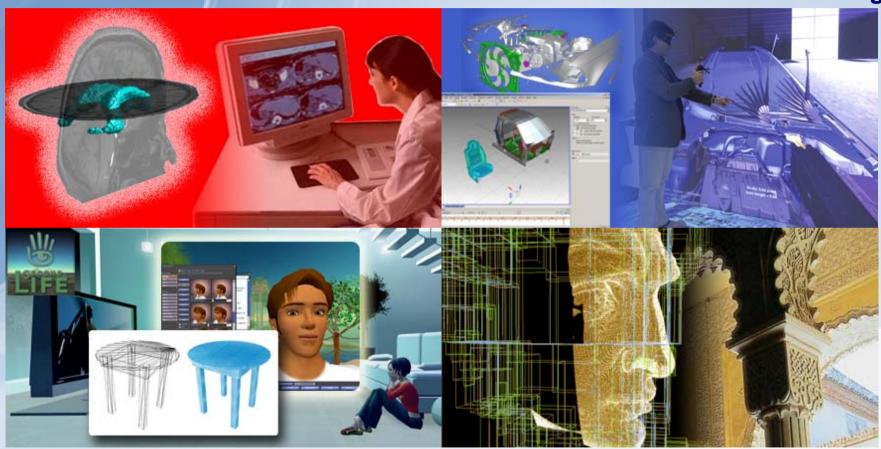
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Application fields

Medicine & Bioinformatics

CAD/CAE & Virtual Product Modelling



Gaming & Simulation

Archaeology & Cultural Heritage

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The new dimension of media

The evolution

• '70s: sound

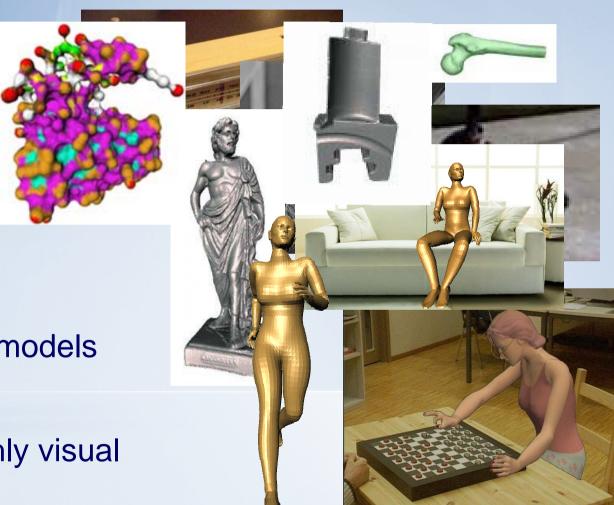
'80s: images

90s: videos

now digital 3D models

The *new wave of* highly visual

3-dimensional content





3D content users

- media professionals
- enterprise designers
- publishers/dealers
- scientists
- talented amateurs









Some considerations on 3D

- Public interest in 3D entertainment
- Research interest in 3D content modelling and reasoning also growing
- 3D technologies fast evolution
- 3D content is big and growing in terms of data, number of users, variety of applications
- Europe has already developed a strong activity in 3D (FP6 projects: AIM@SHAPE, SALERO, 3D TV,...)



Open issues

- Fast and effective creation and archiving of 3D knowledge content
- Context based 3D content representation and delivery
- Fast and efficient search and retrieval





Is there a model similar to my hand in a repository?

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FOCUS K3D goals

- Requirements of the user communities
 - how and why they create and process 3D content
 - how they deal with 3D content knowledge
- Current practices and analysis of the needs for advanced 3D content modelling and processing
 - building up on previous FP6 R&D, evaluate how usable/useful semantics-oriented techniques can be in the different applied domains
 - what kind of services users need to handle the 3D knowledge workflow pipeline
- Research roadmaps
 - which research problems are still open in 3D content and knowledge modelling and processing
 - how to personalise solutions in the application domains
- Openness to a larger audience



Strategy

Methodological Working Group (MWG)

To set up ad hoc strategies for a profitable collaboration with the different communities

- Application Working Groups (AWGs)
 - User's communities, one for each application area
 - To better organise and customise the dissemination activities according to the needs of the specific fields

Measurable objectives and results!



Impact on Users

Professional developers

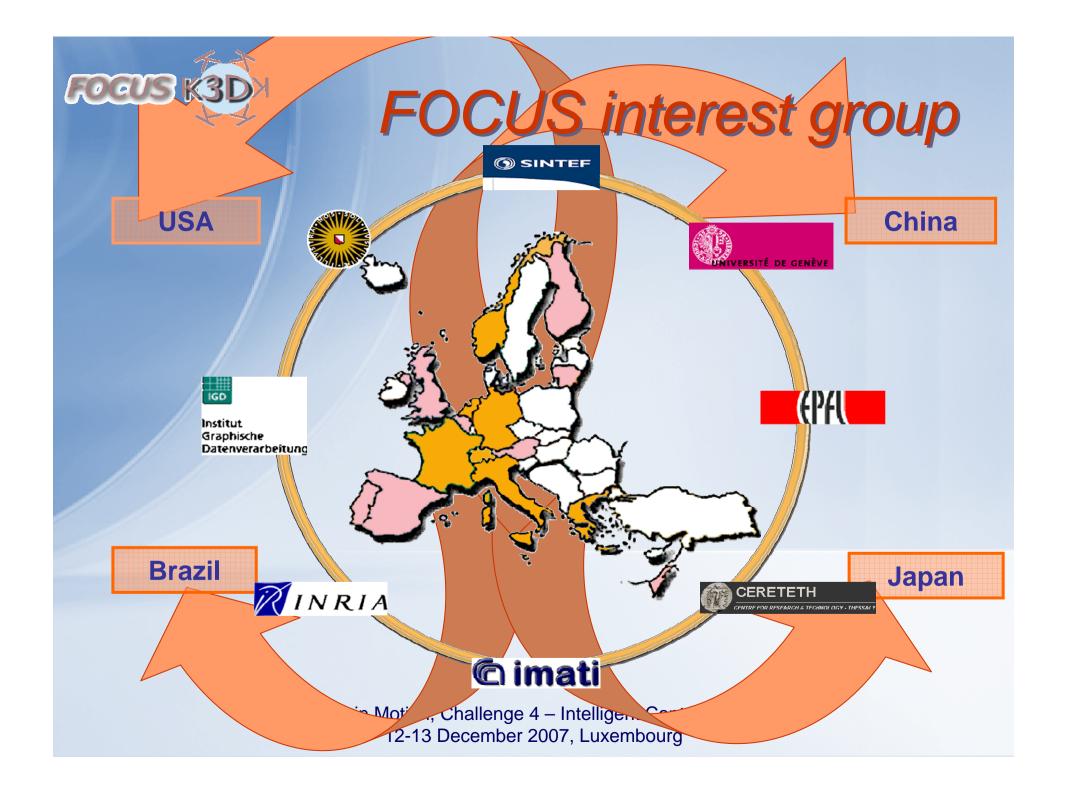
- insights on the new technology developments for representing and processing 3D content knowledge
- perspective view into future business needs

Creators of digital 3D content

 orientation for future ways of working in 3D knowledge production, share and maintenance

Publishers/dealers of 3D repositories on line

 suggestions on how to enable the semantic sharing of those resources





Viking Laws

1. be brave & aggressive

be direct, grab all the opportunities, use varying methods of attack, be versatile and agile, attack one target at the time, don't plan everything in detail, use top quality weapons

2. be prepared

keep weapons in good conditions, keep in shape, find good battle comrades, agree on important points, choose one chief

3. be a good merchant

find out what the market needs, don't promise what you can't keep, don't demand overpayment, arrange things so that you can return

4. keep the camp in order

keep things tidy and organised, arrange enjoyable activities which strengthen the group, make sure everybody does useful work, consult all members of the group for advice