

iGlance: An Innovative Platform for 3D Digital Television

Background

The iGlance project aims to develop a new-generation TV system to prepare for the next revolution in TV viewing. First came color, and then HDTV. The next generation TV set will be **connected, interactive, and use multiple sources**, so that viewers can interact directly with the shows they watch. iGlance reflects the convergence of PCs, Internet access, and traditional TVs into full-fledged home media centers, along with the development of 3D viewing technology. To reach the project's goals, new image compression, decompression, and formatting processes must first be **standardized at an EU level** using real-time demos and tests.

Partners

Corporate

Philips Applied Technology - Philips 3D Solutions - **STMicroelectronics** - Logica

SME

4DViews - Silicon Hive - Verum

Research laboratories

Eindhoven University of Technology - INPG-TIMA - INRIA

Key figures

Budget: €11 million from France and

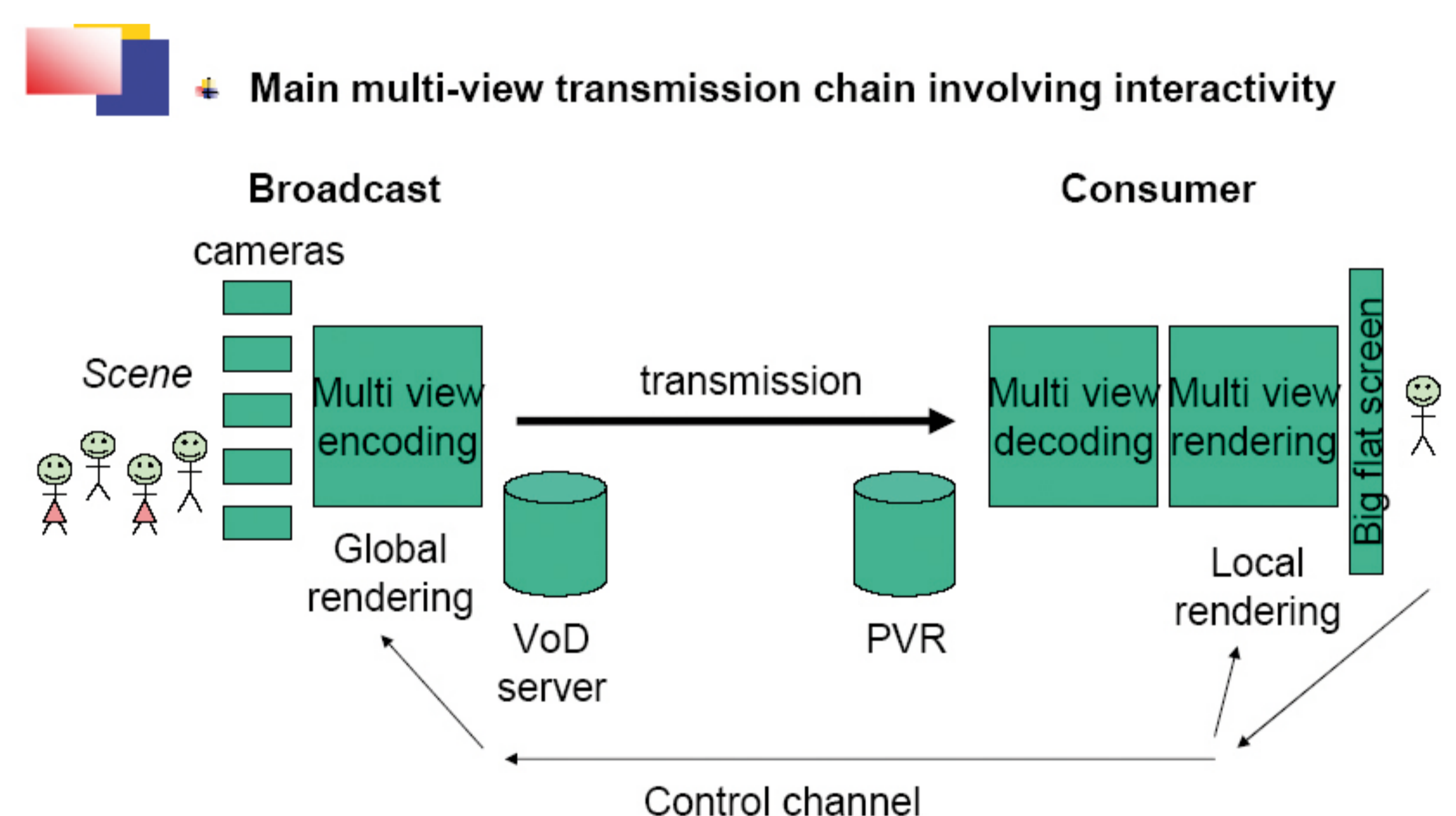
€6.7 million from the Netherlands

Duration: 3 years

Human resources allocated: 46 FTE

Innovation

- **Extensions designed for next-generation HDTV applications**, such as new image quality adjustment features to improve the image chain for both processing and control. This gives an extremely high quality screen image and paves the way for 3DTV innovation.
- The possibility of **transitioning from 2D to 3D** using **multiview video coding (MVC)**, and of helping to standardize free-viewpoint television (FTV).
- Suitability for **interactive 3DTV applications**, offering advanced home network options with new interfaces and connections.
- An integrated system that can be used for **3D FTV**, with a platform that leverages HDTV technology more effectively and at a lower cost.



Selection of camera angles

