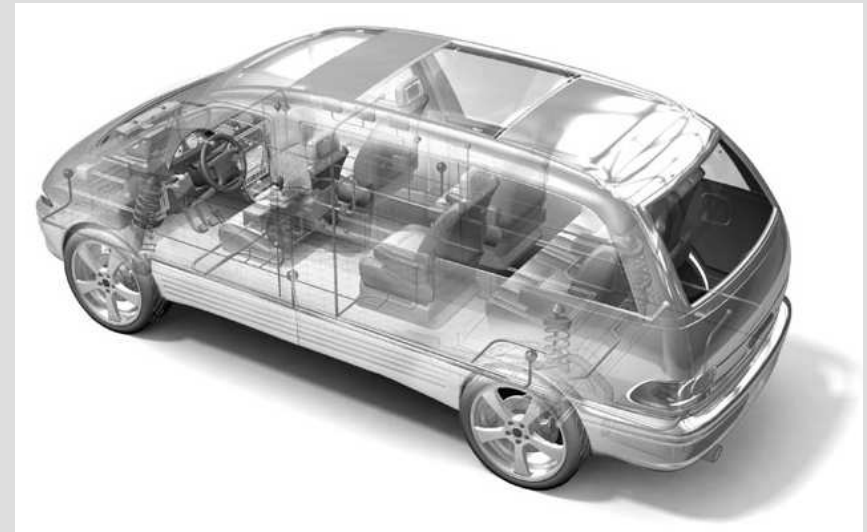


Caracas: Cardinal use cases overview

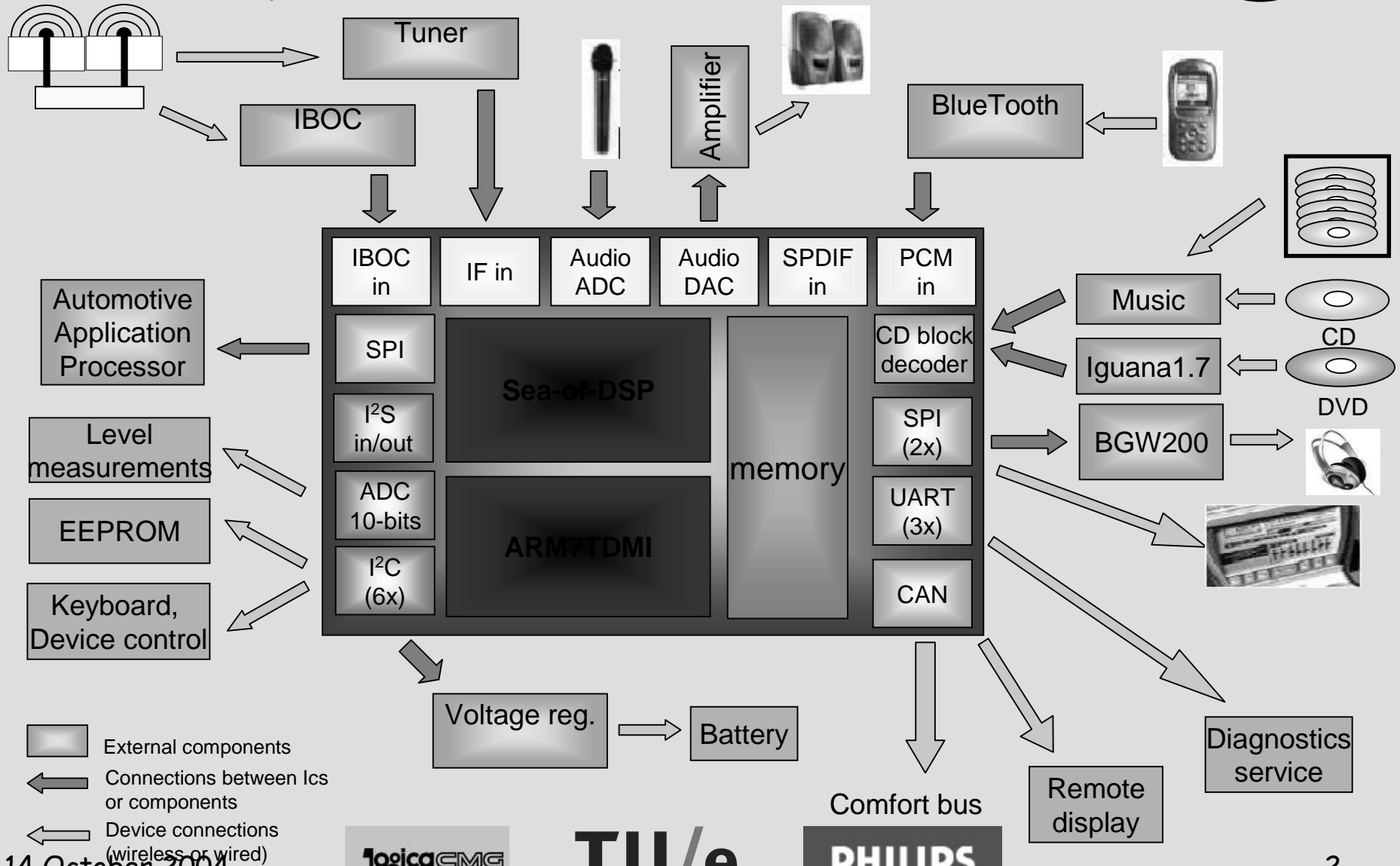


- *Radio reception*
 - *AM/FM, HD radio*
- *Audio playback*
 - *CDDA, MP3, WMA playback*
 - *CD, CD-changer, DVD*
- *Dual media*
 - *Radio + Audio (front vs rear)*
- *Connectivity*
 - *BlueTooth*
 - *Wifi*
 - *USB*





Cardinal System overview

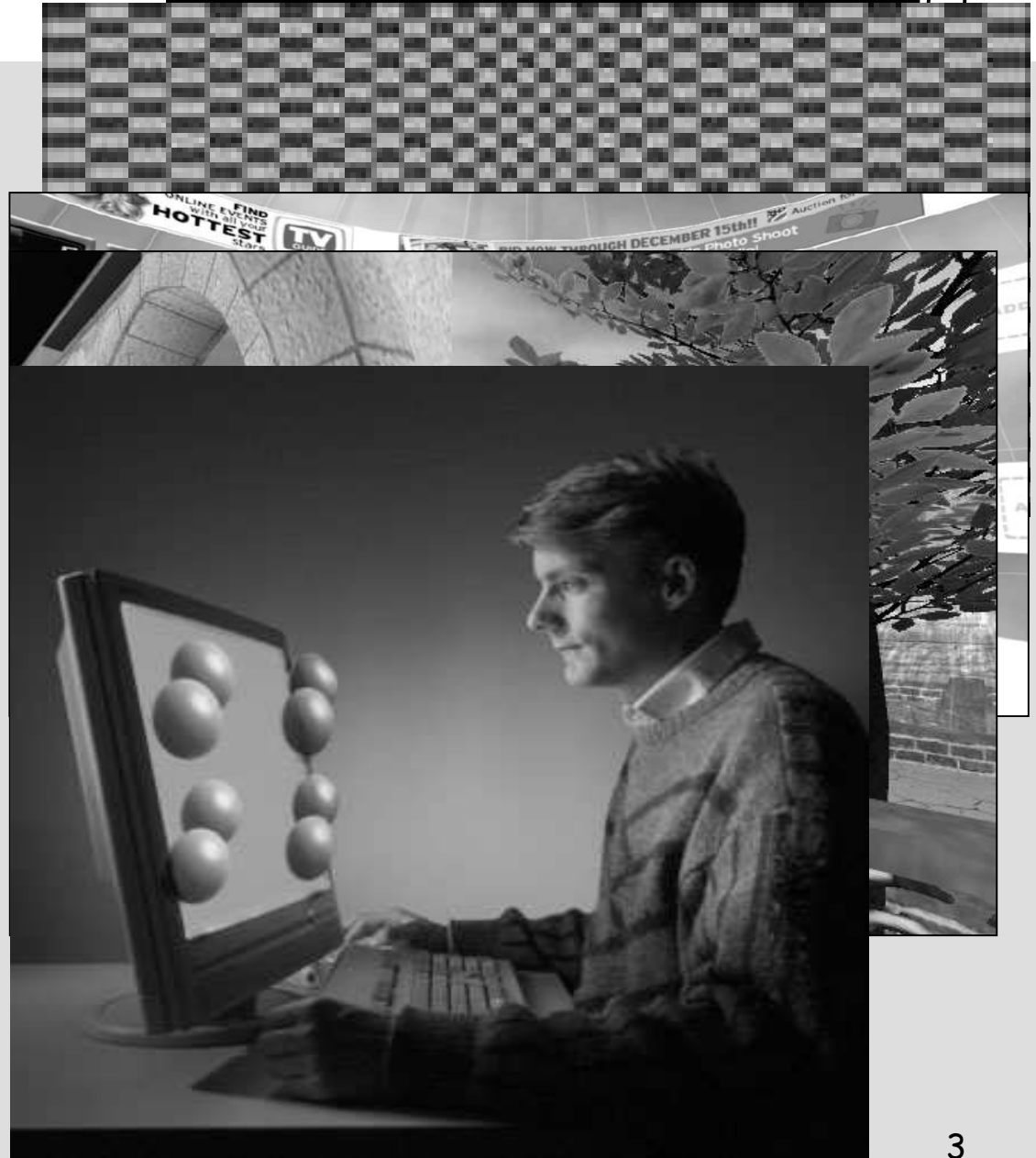


14 October 2004



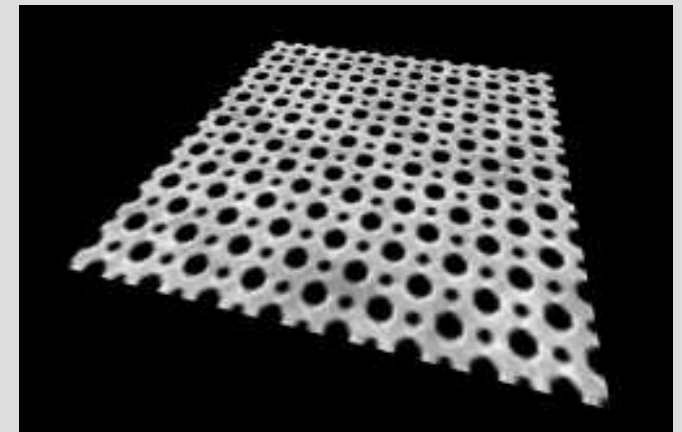
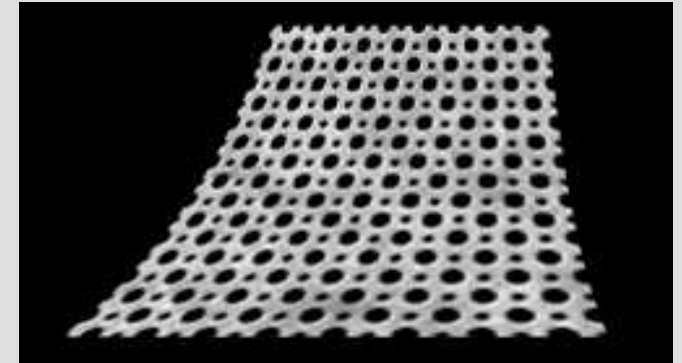
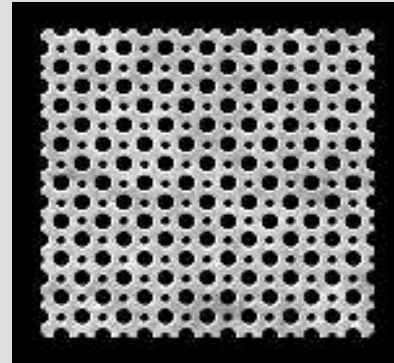
Scaler used in:

- Video scaling for TV
- Video scaling in TV (panoramic stretch)
- User interfaces
- Graphics rendering (texture filter)
- Rendering for 3D displays





Application: graphics video scaler



- H-scaling + V-scaling
- Variable data rates
- Several communicating processes

Application domain: Smartphones



- Driver application/architecture has to be defined.

What do we do for our partners?



- Analyse bottlenecks in
 - Architecture
 - Mapped application
 - Design flow
- Perform the mapping on NoC, thereby testing, evaluating, and demonstrating our predictable design flow, both design-time and run-time
- Offer our deliverables (methods, tools)