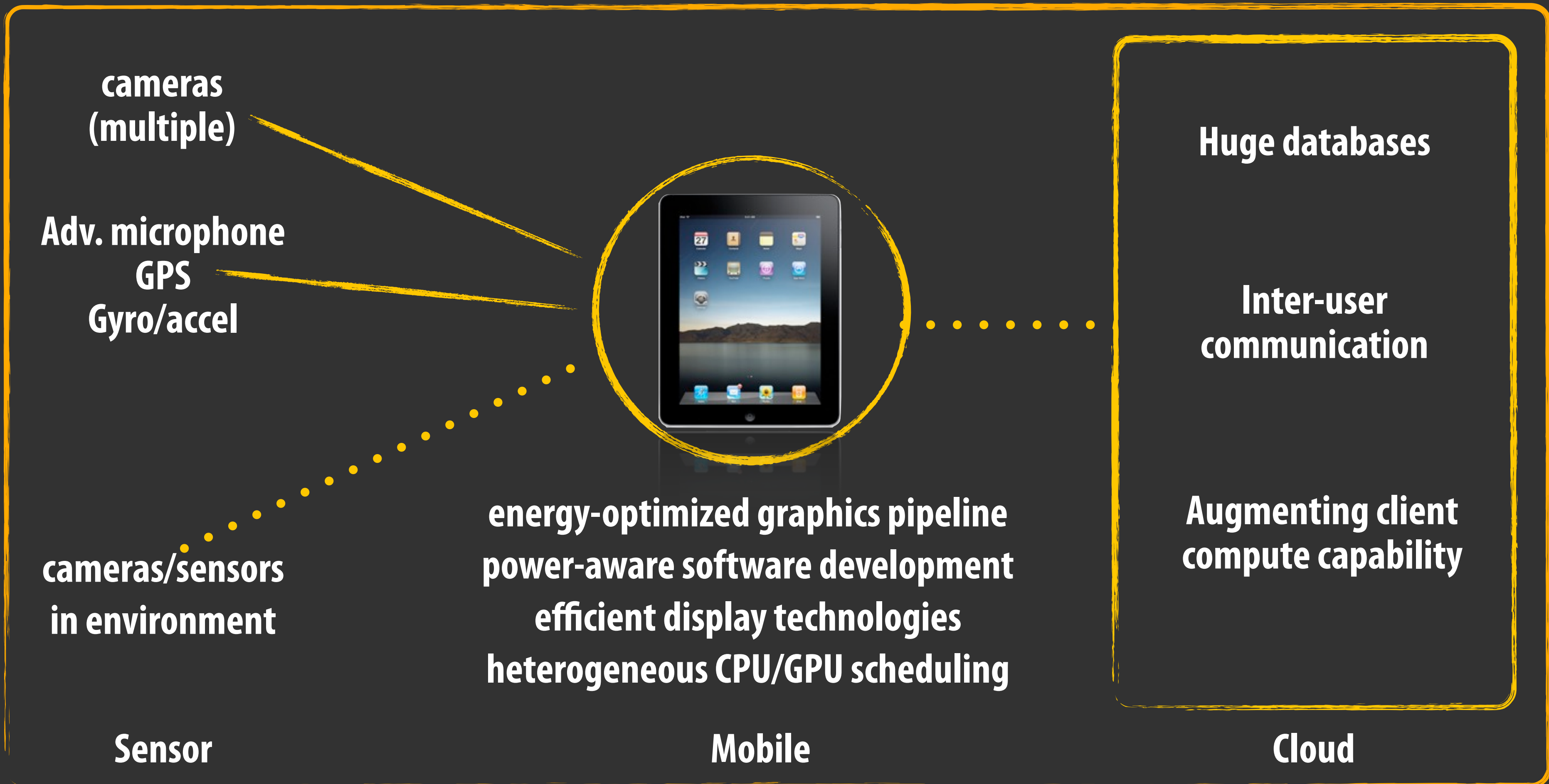


Ability to sense state of the surrounding environment

Interpret/react immediately using global-scale bodies of knowledge



This is a future visual-computing application.

- **Graphics systems have traditionally been built around a high level of end-to-end integration and optimization**
 - The graphics pipeline
 - The game engine
- **Today, web+mobile app programming involves a federation of systems and paradigms:**
 - Applications are mash ups of technologies, programming systems, and services
 - Underlying architectures also “mashups” of processors and IP
- **Key questions:**
 - Algorithms for this ecosystem?
 - Abstractions: Is a “mash up” of abstractions appropriate for this context? Can a more integrated “visual computing pipeline” provide ease-of-programming and implementation optimization benefits in this diverse ecosystem?