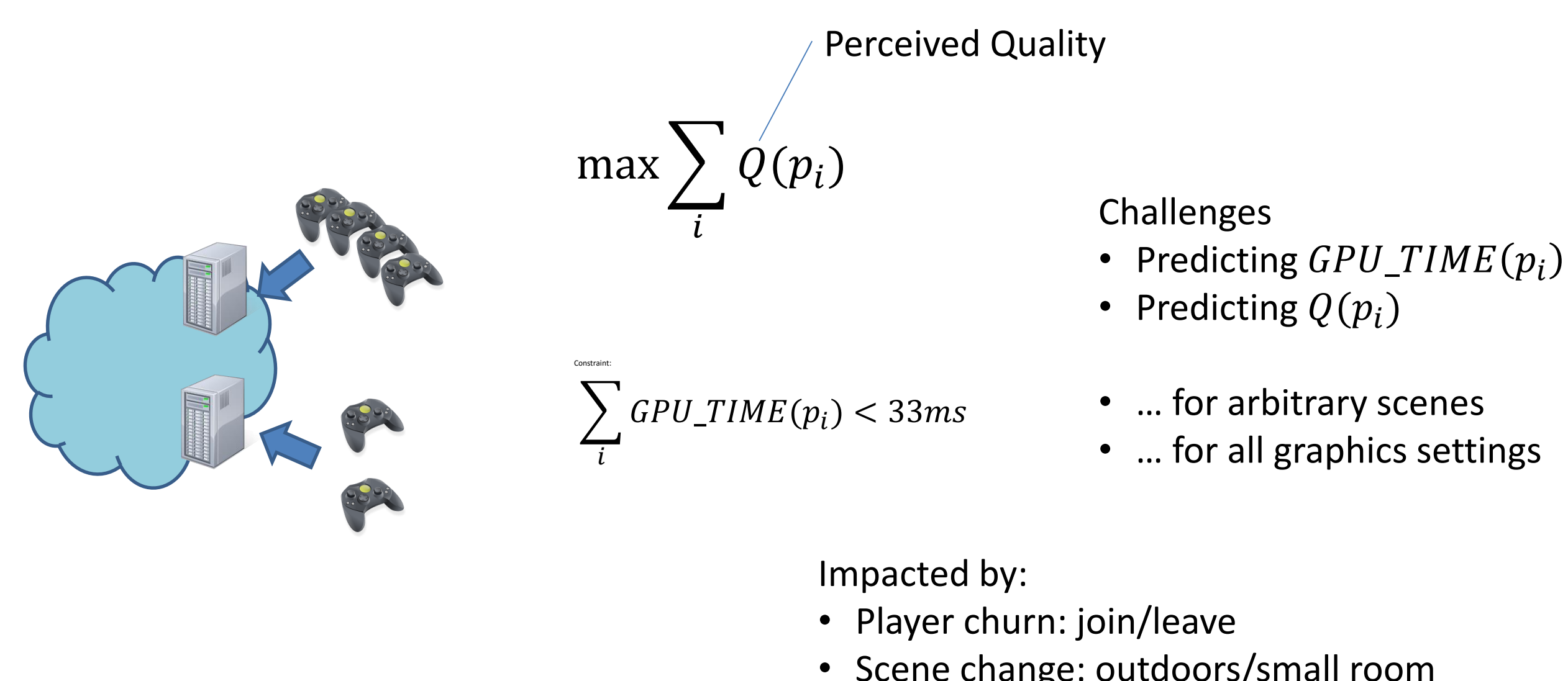




# dJay: Enabling High-density Multi-tenancy for Cloud Gaming Servers with Dynamic Cost-Benefit GPU Load Balancing

Sergey Grizan, David Chu, Alec Wolman, Roger Wattenhofer

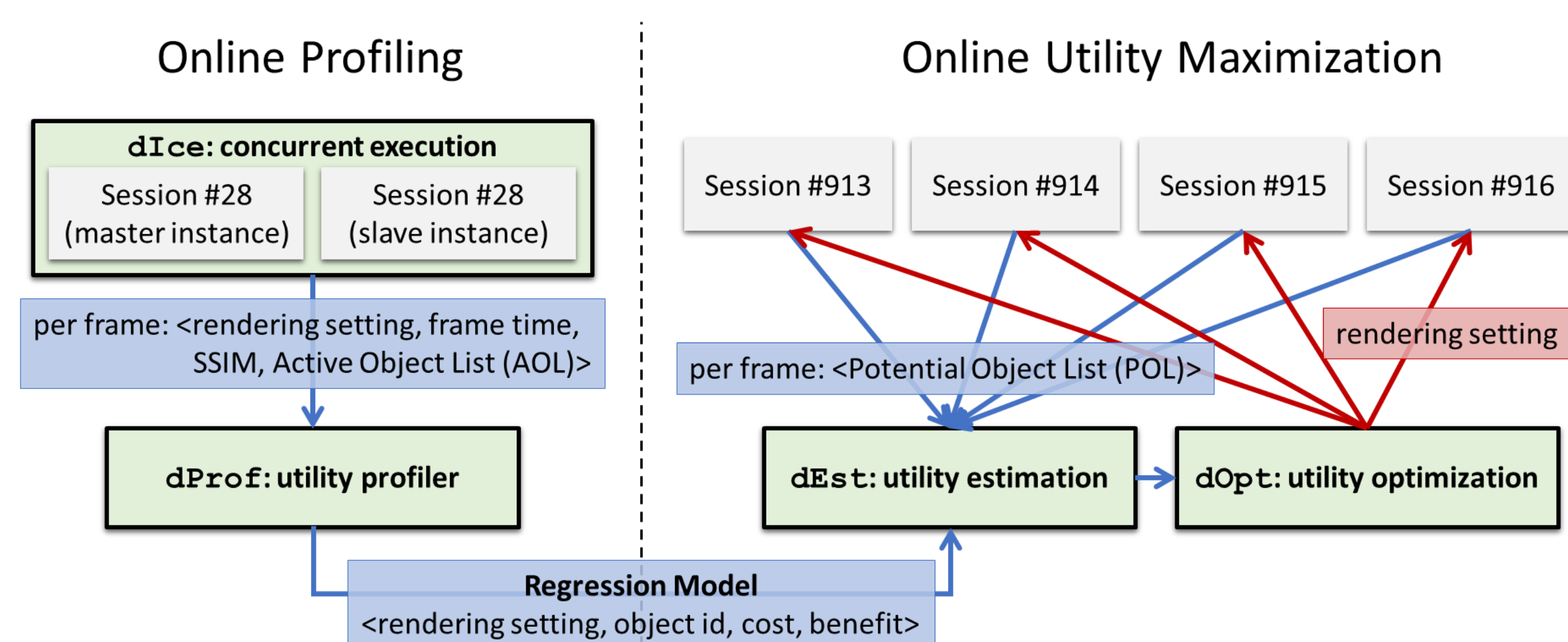
## Density Optimization Problem



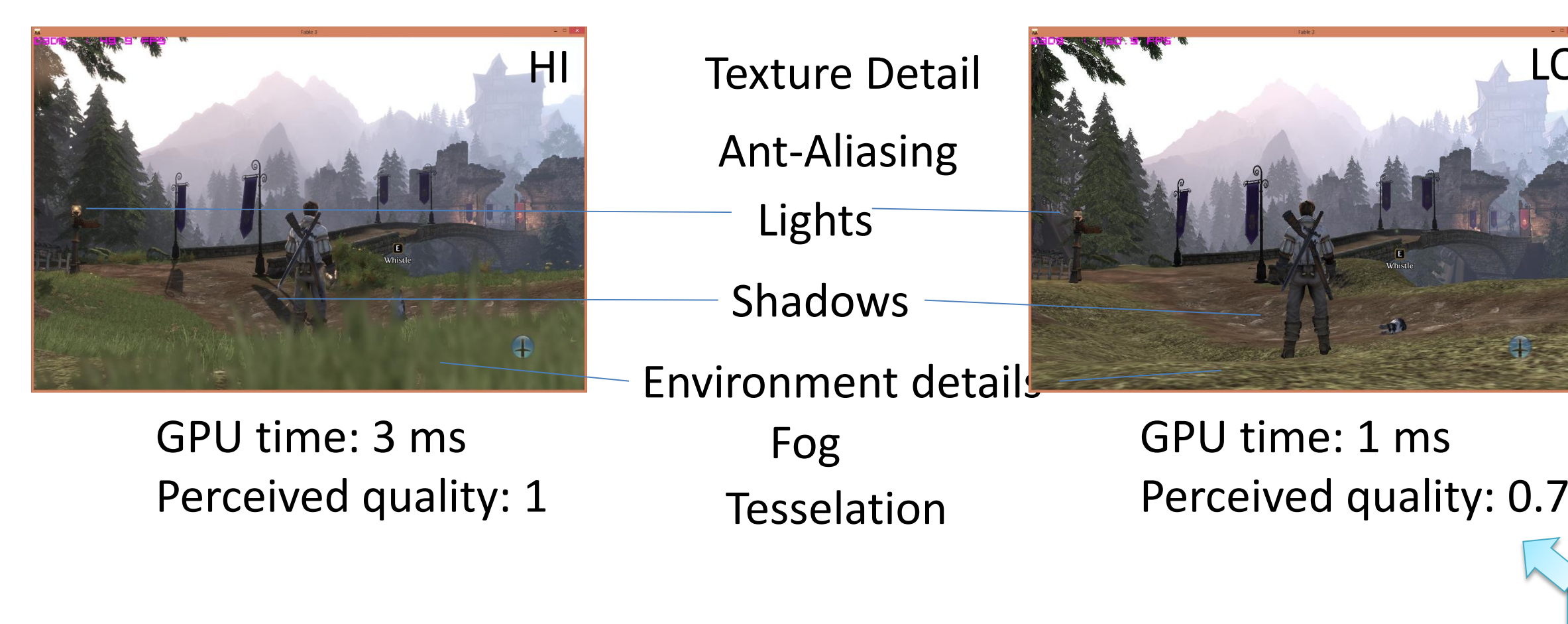
## Challenge



## System Architecture

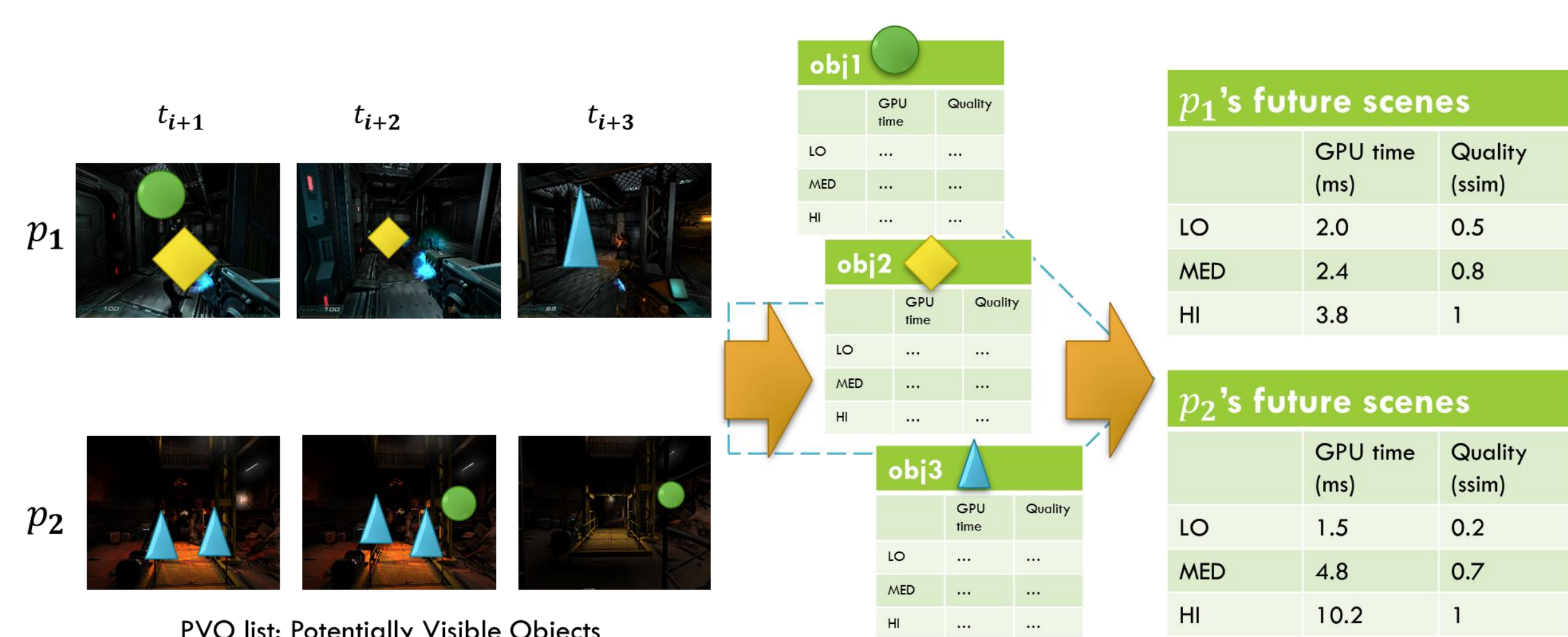


## Key Insight: Tunable Visual QoS

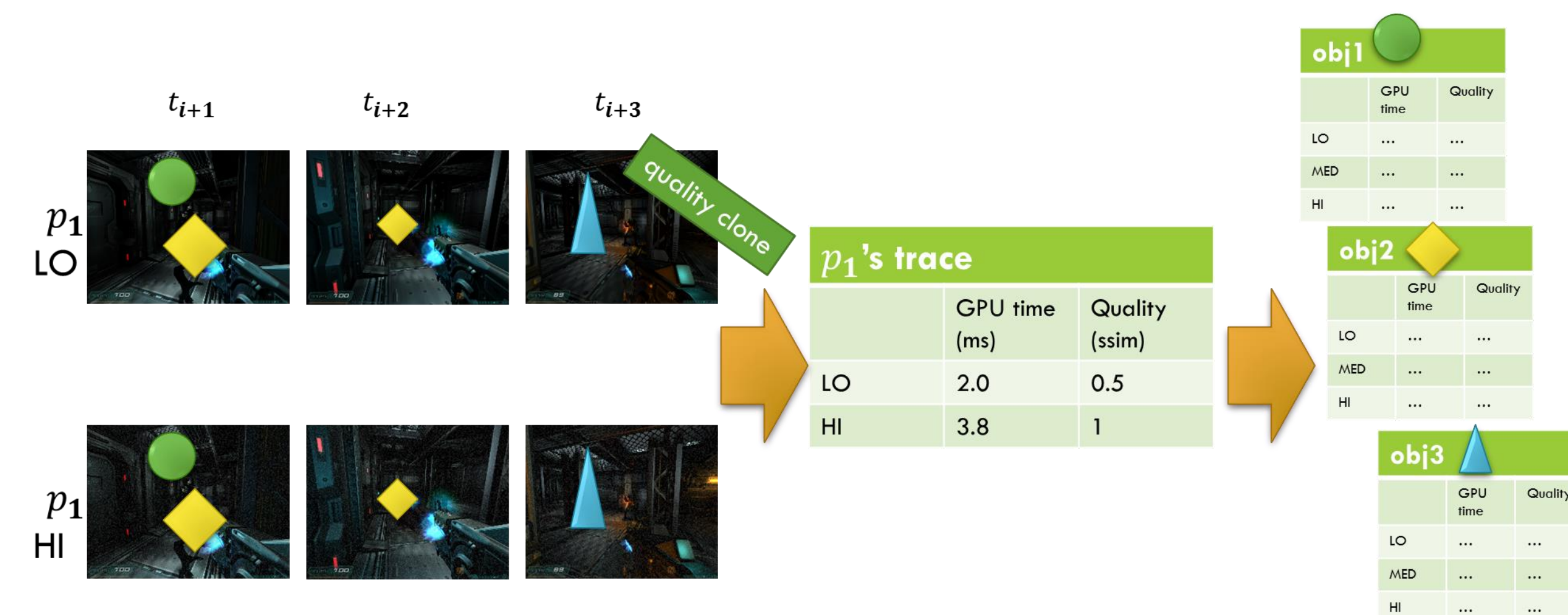


## Utility Estimating: Cost and Benefit

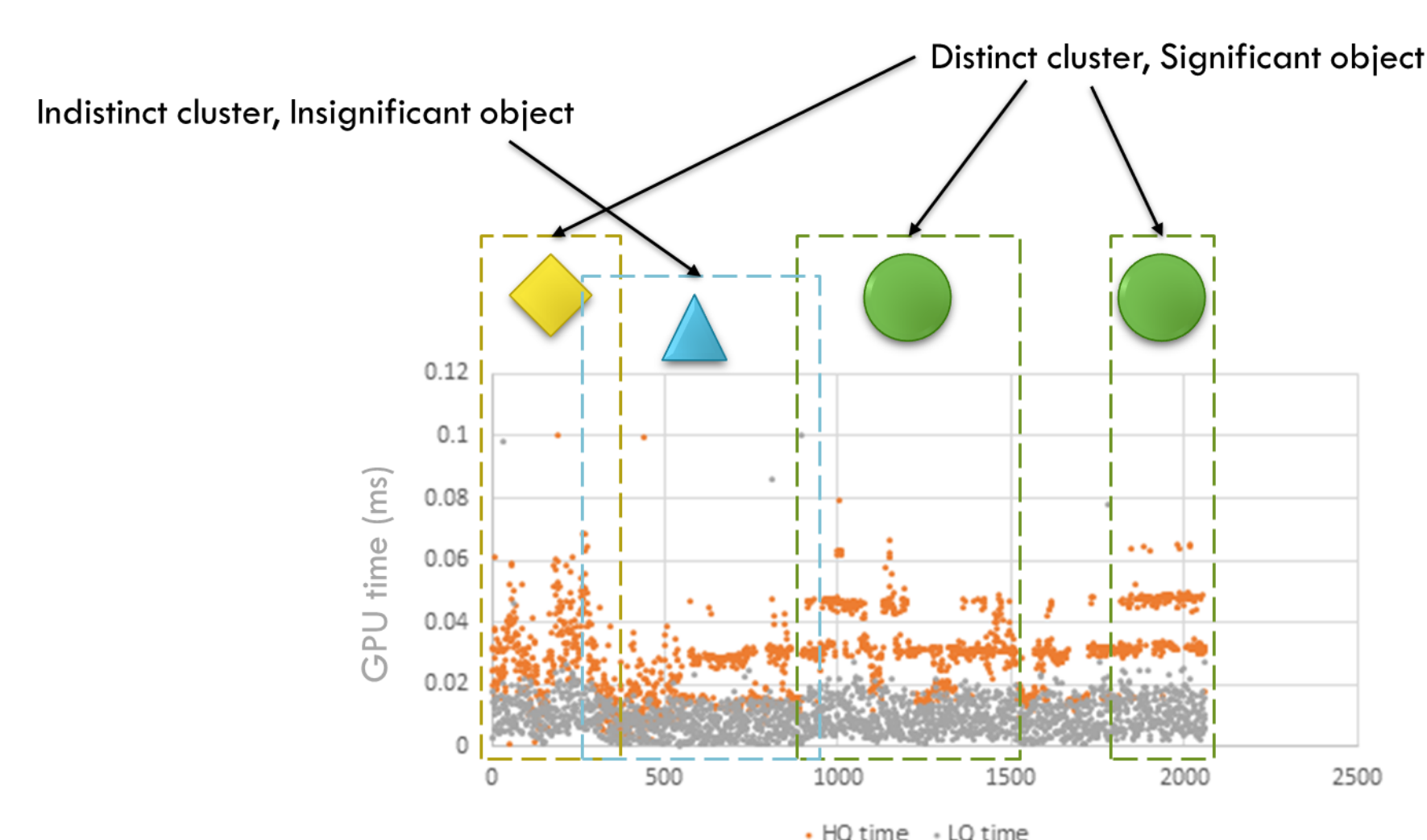
### SOLVING FOR OPTIMAL SETTINGS



### BUILDING OBJECT TABLES

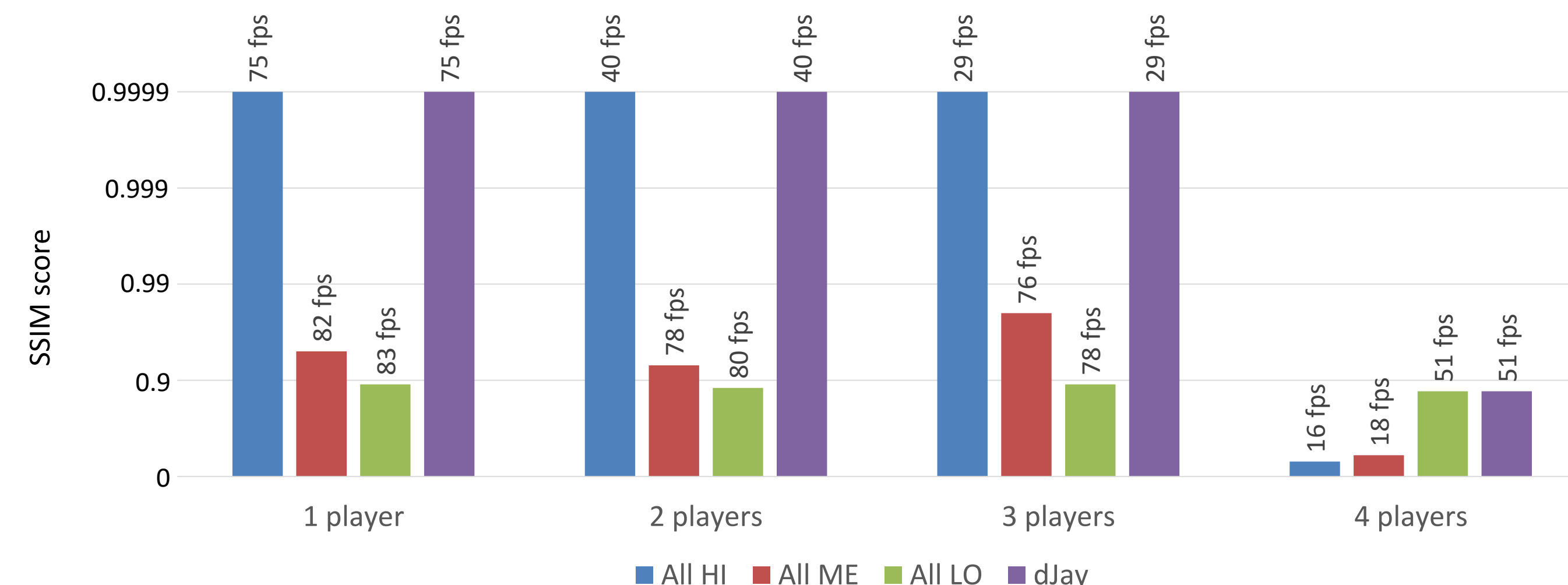


### OBJECT TABLES BY CLUSTERING

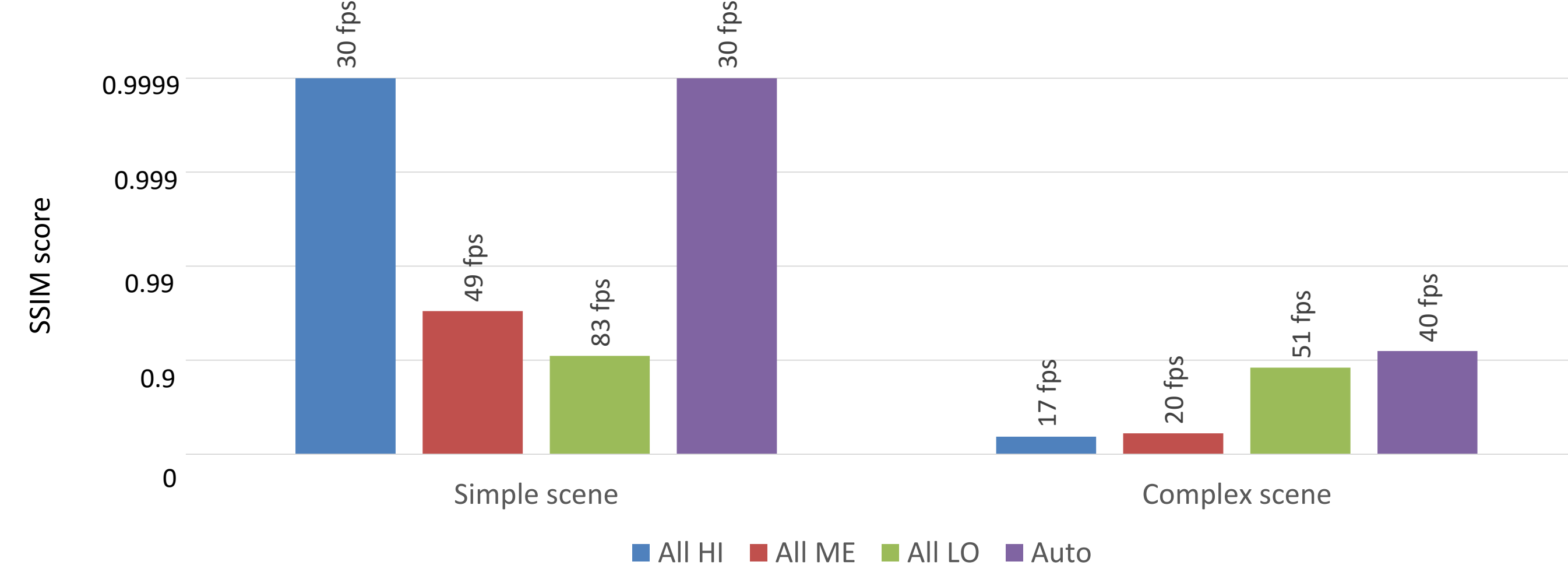


## Results on Fable 3

### Increasing multi-tenancy



### Increasing scene complexity



### Responsiveness

