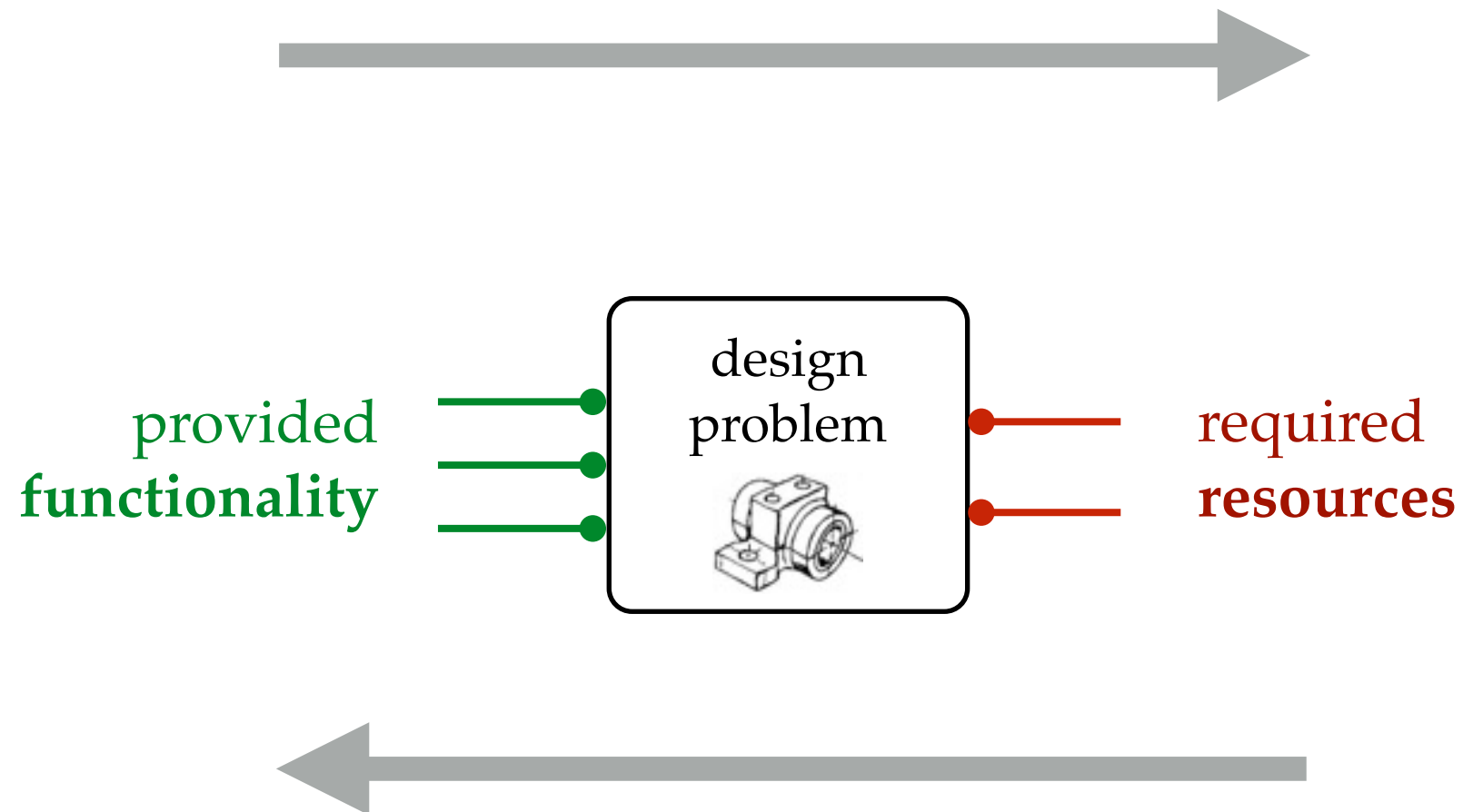
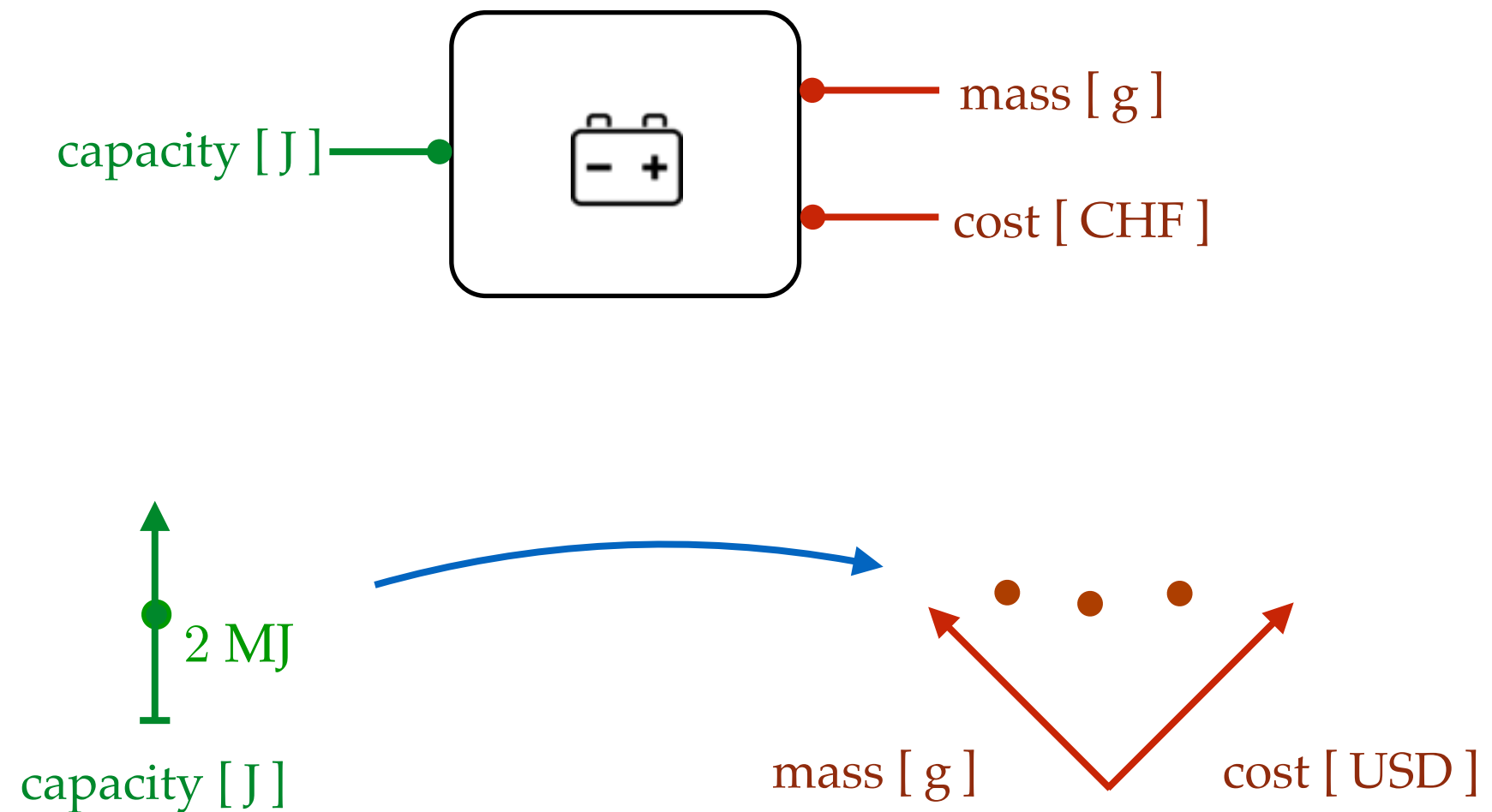


- ▶ **Given the functionality** to be provided, what are the **minimal resources** required?



- ▶ **Given the resources** that are available, what is the **maximal functionality** that can be provided?

- **Given the functionality** to be provided, what are the **minimal resources** required?



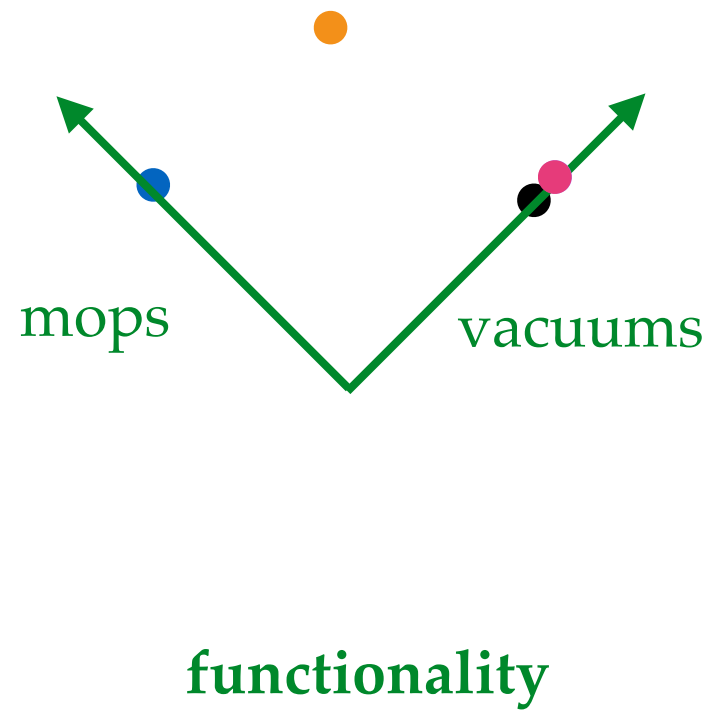


Roomba
\$200

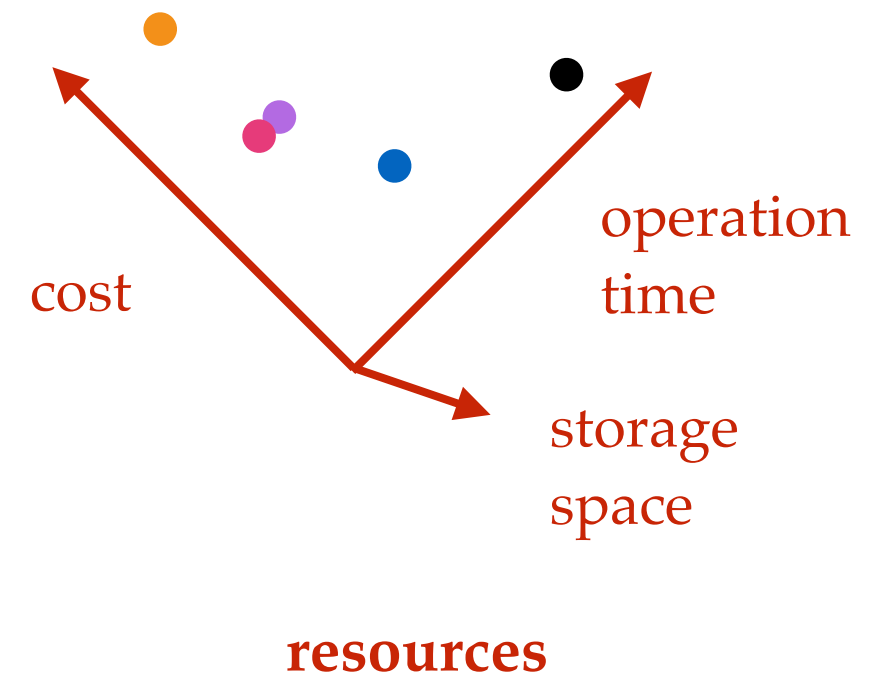


Roomba 980
\$900



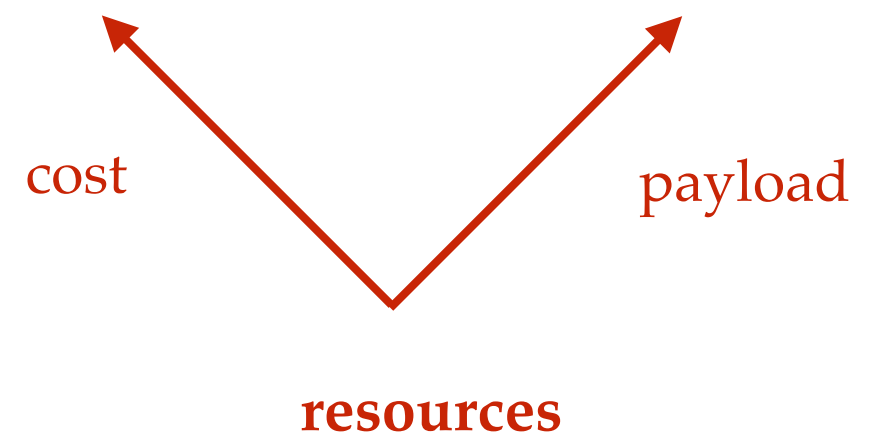
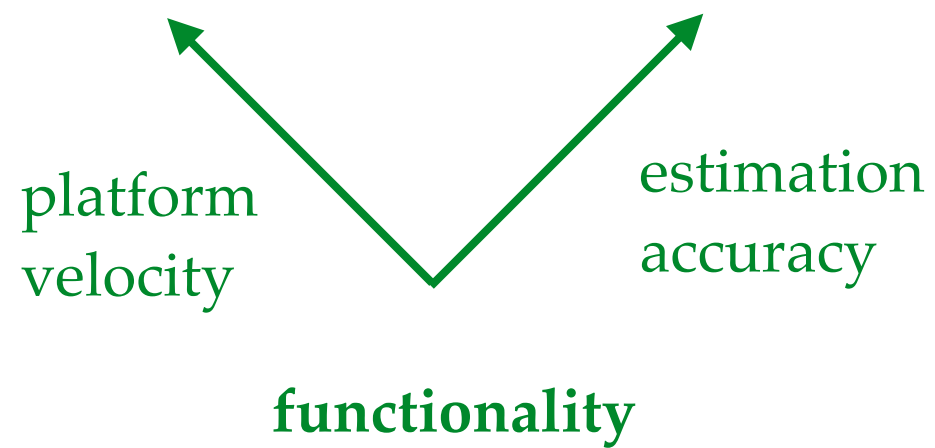
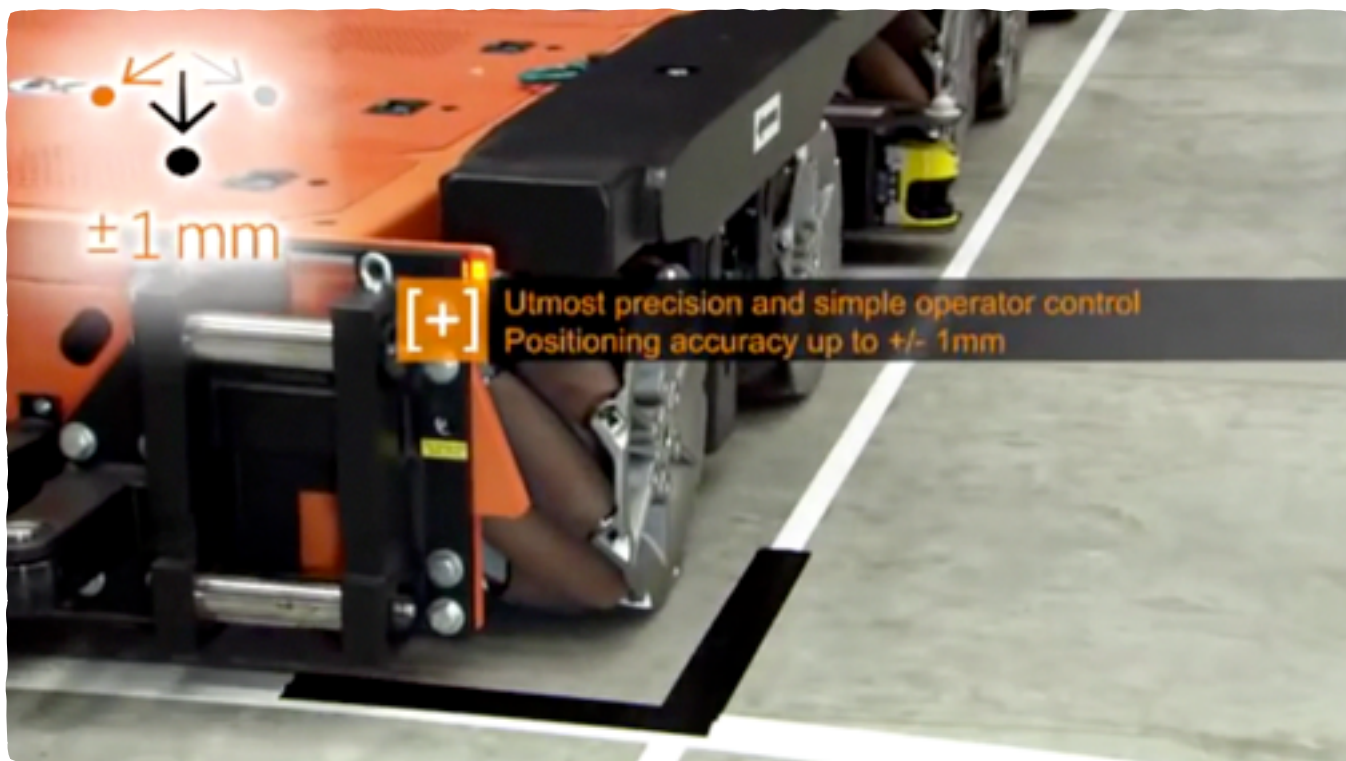


cleaning robots



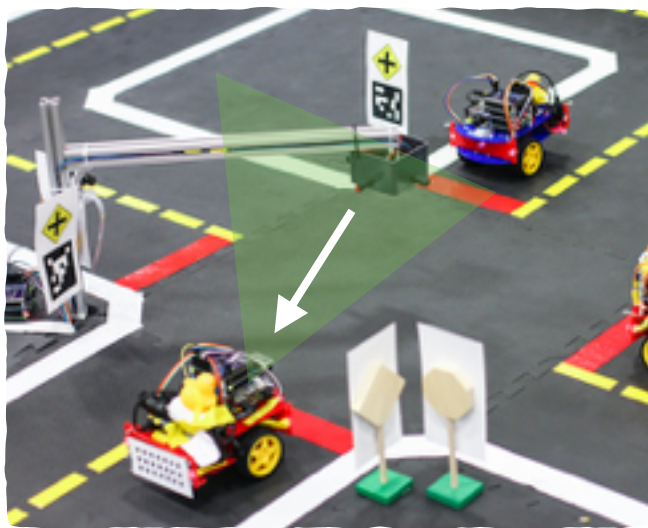
Kuka's Omnimove

MIT/DRAPER



Coordination: trade-offs of platform vs infrastructure complexity

centralized / vision



distributed / vision



distributed / network

