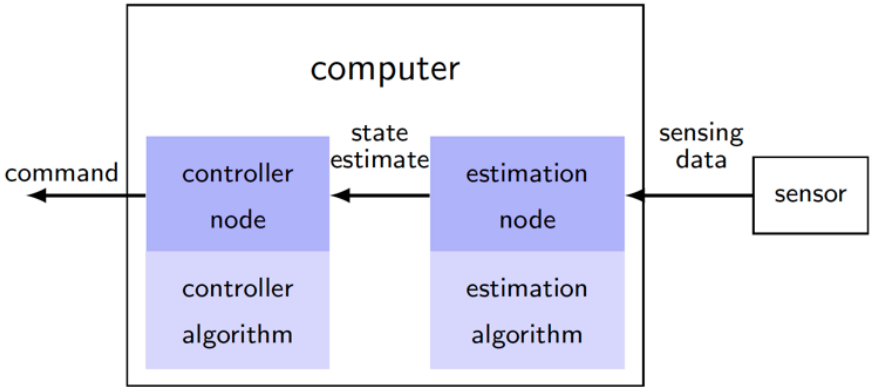
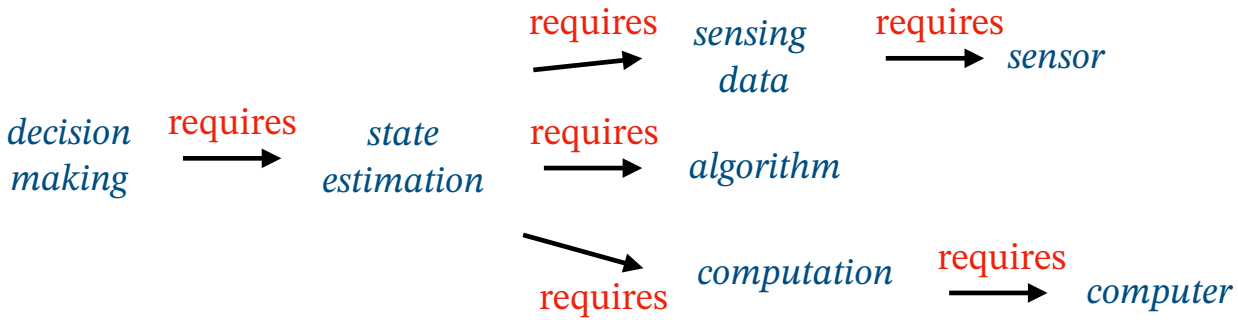
Data flow vs. logical dependencies

- In robotics, we are used to think about **data flow:**



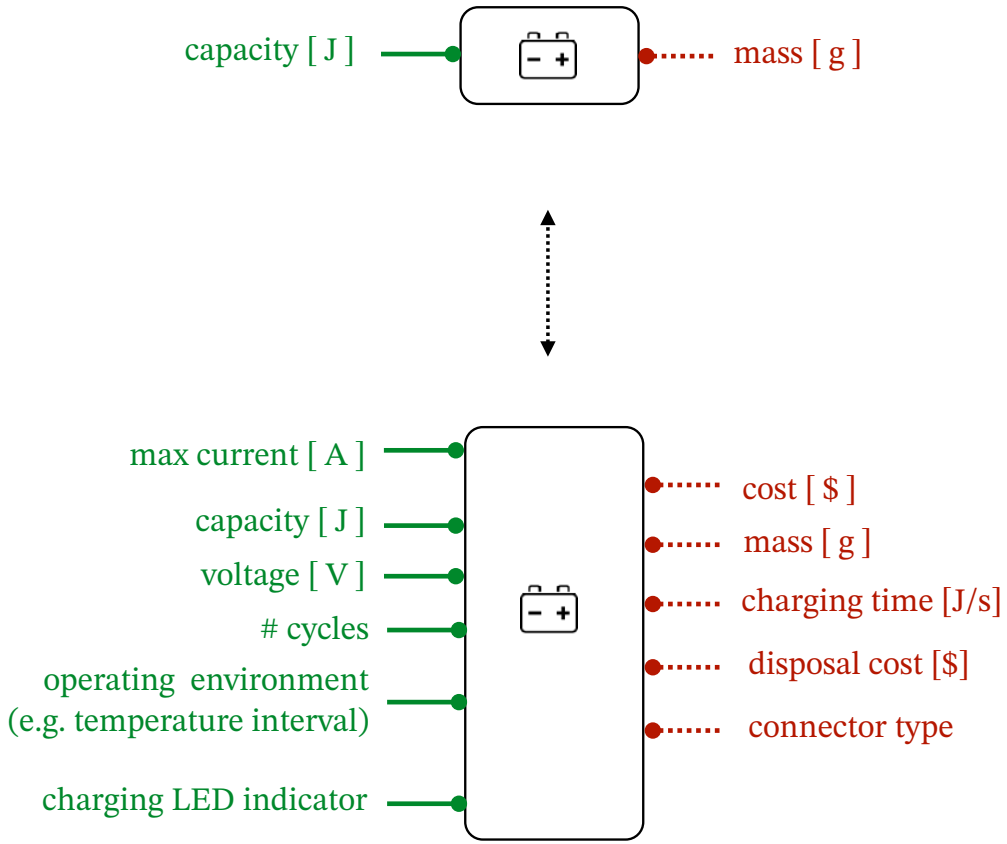
- To find **components**, it helps to reason about **logical dependencies**:



*But **why** do we need a computer?*

Context informs the level of detail

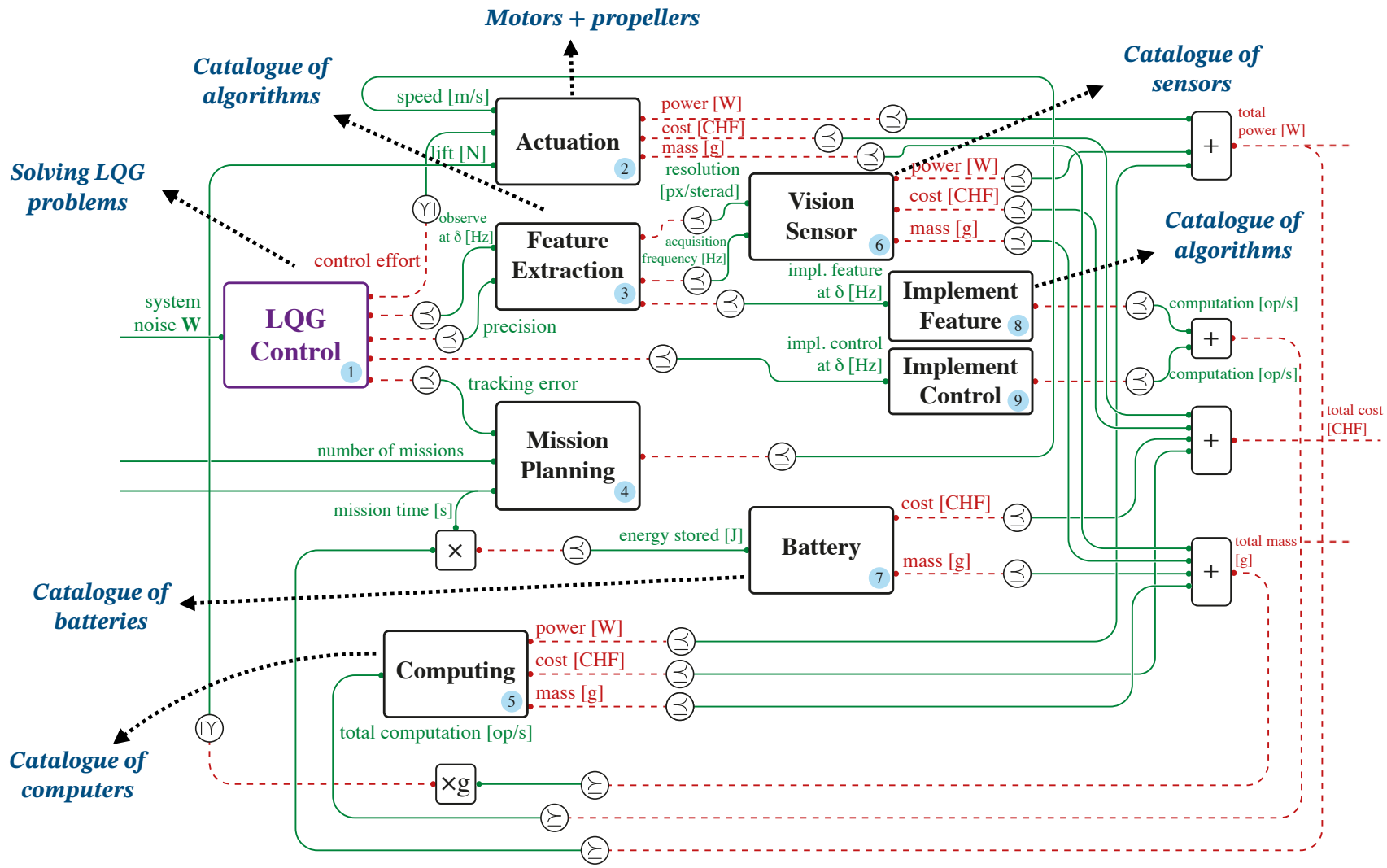
- Different scenarios will need different levels of detail.



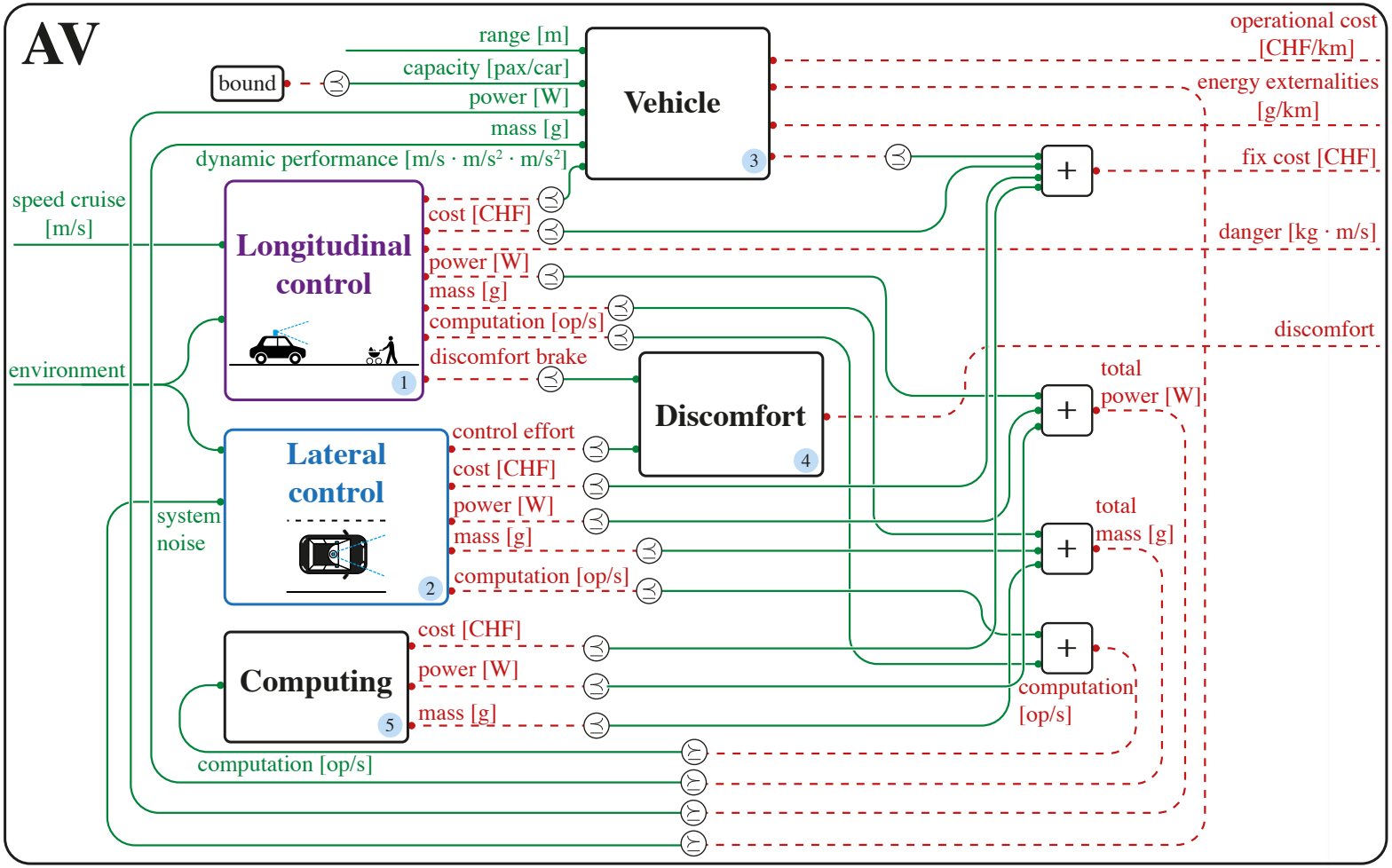
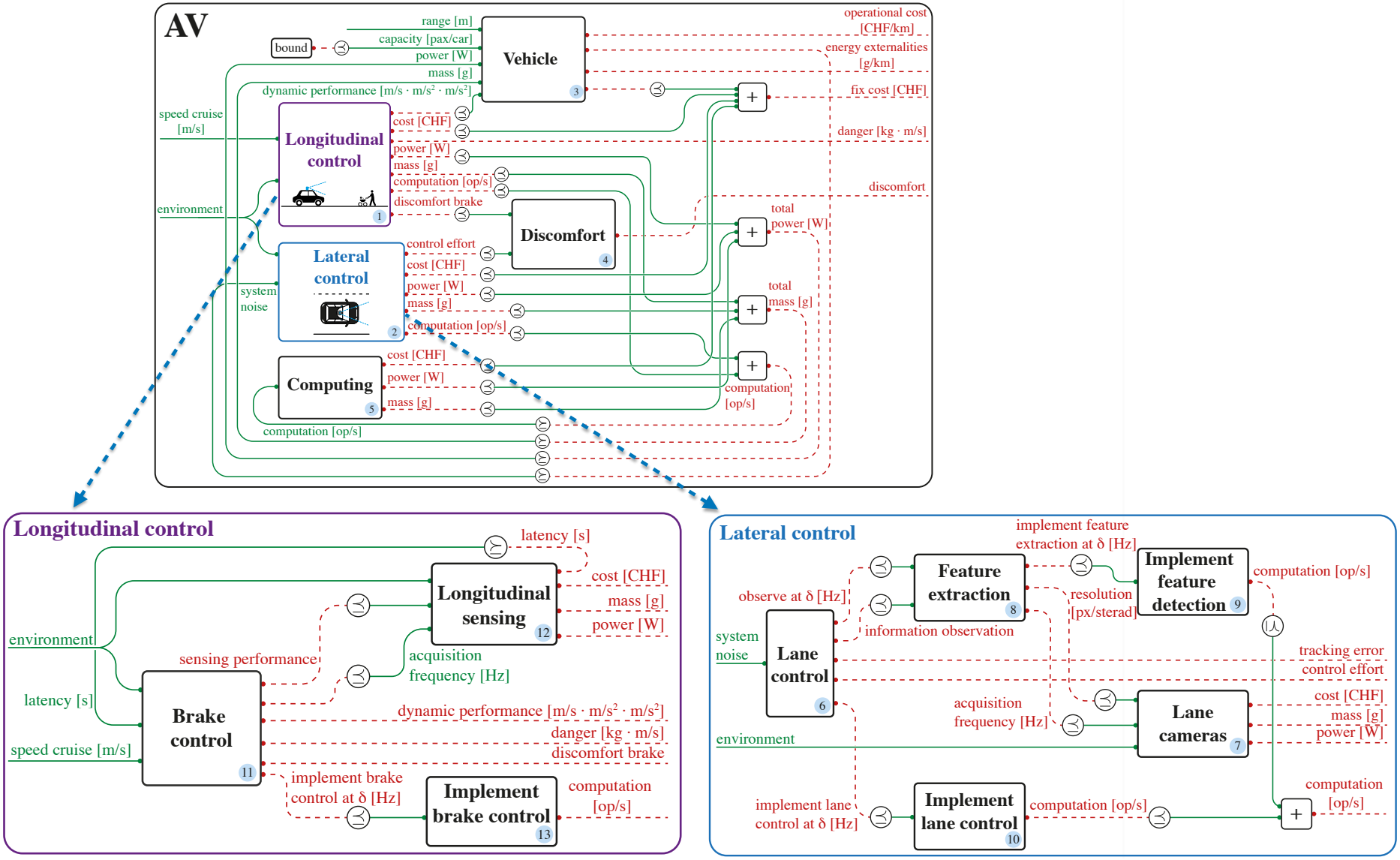
"back of the envelope calculation"

"vendor selection"

Use case: Co-design of an autonomous drone



Co-design of an AV



Functional decomposition