

World Café 1 – Composability of CPS

- Composability is well-studied in computer science – extend this to CPS:

- *Notion of interface:*

Common language between components:

- Allows to understand information
- Allows to expose information:
 - About what the component *offers*
 - But also about *limitations* of the component
- Without revealing all the content
- *How to extend this notion to CPS?*
 - Integrate physical aspect, time
 - How to combine comp. sci. and physical aspects (not just next to each other, but also how do they interact) in one common notion of interface
 - There will probably not just one notion of composition but several, depending on our objectives for the composed object:
There is (probably) no absolute notion of composability

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- Embrace the lack of interface
 - *In the context of CPS, we have to deal with an immense heterogeneity of components*
 - *Chances that there is no common interface maybe needs to be embraced*
 - *And therefore “recovery mechanisms” to be investigated:*
 - *Use sensors/actuators to establish live a common language?*
 - *Ability to connect to the cloud to discover new languages?*