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# WP6 – Context Aware Networks

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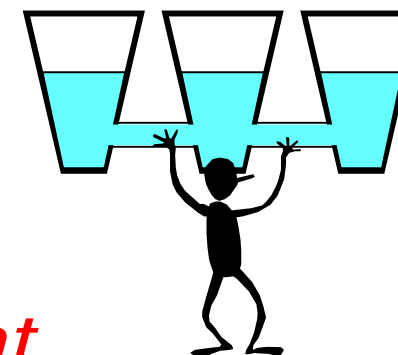
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- ❖ Greater variety of communication environments – for end users
  - How to make best use of available resources?
- ❖ More networks to manage based on different access technologies – for network providers
  - How to overcome barriers between separately managed domains?
- ❖ More resources for communication services are available overall
  - Adaptation and self-(re)configuration not easy to achieve without expert intervention!



## *Network Context Management*

- ↑ SoA ↓
- ❖ Pervasive computing and context-awareness
    - Embed context-awareness in applications
    - Advantages for end-users / application developers
- ↑ WP6 ↓
- ❖ Pervasive *networking* and context-awareness
    - Embed context awareness in network-services
    - Enable context-sensitive communications
    - Advantages for network providers / administrators / end-users

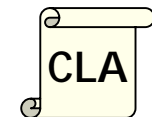
## ❖ CIB - Context Information Base

- distributed repository for context information
- + processing capability



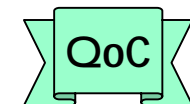
## ❖ CLA - Context Level Agreement

- negotiate rules for exchange of context across domains
- filter access to context information



## ❖ QoC - Quality of Context

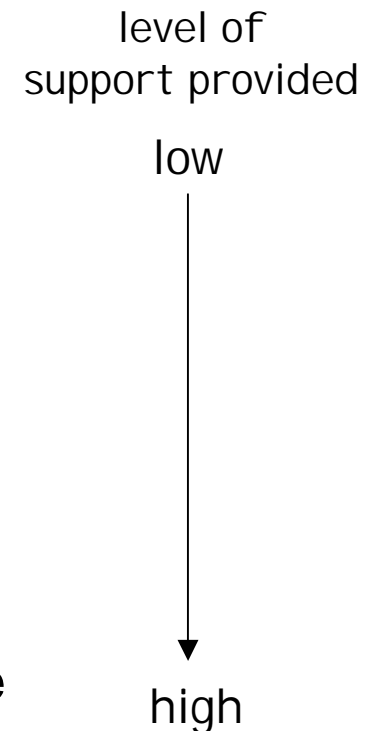
- usability of context
- trustworthiness

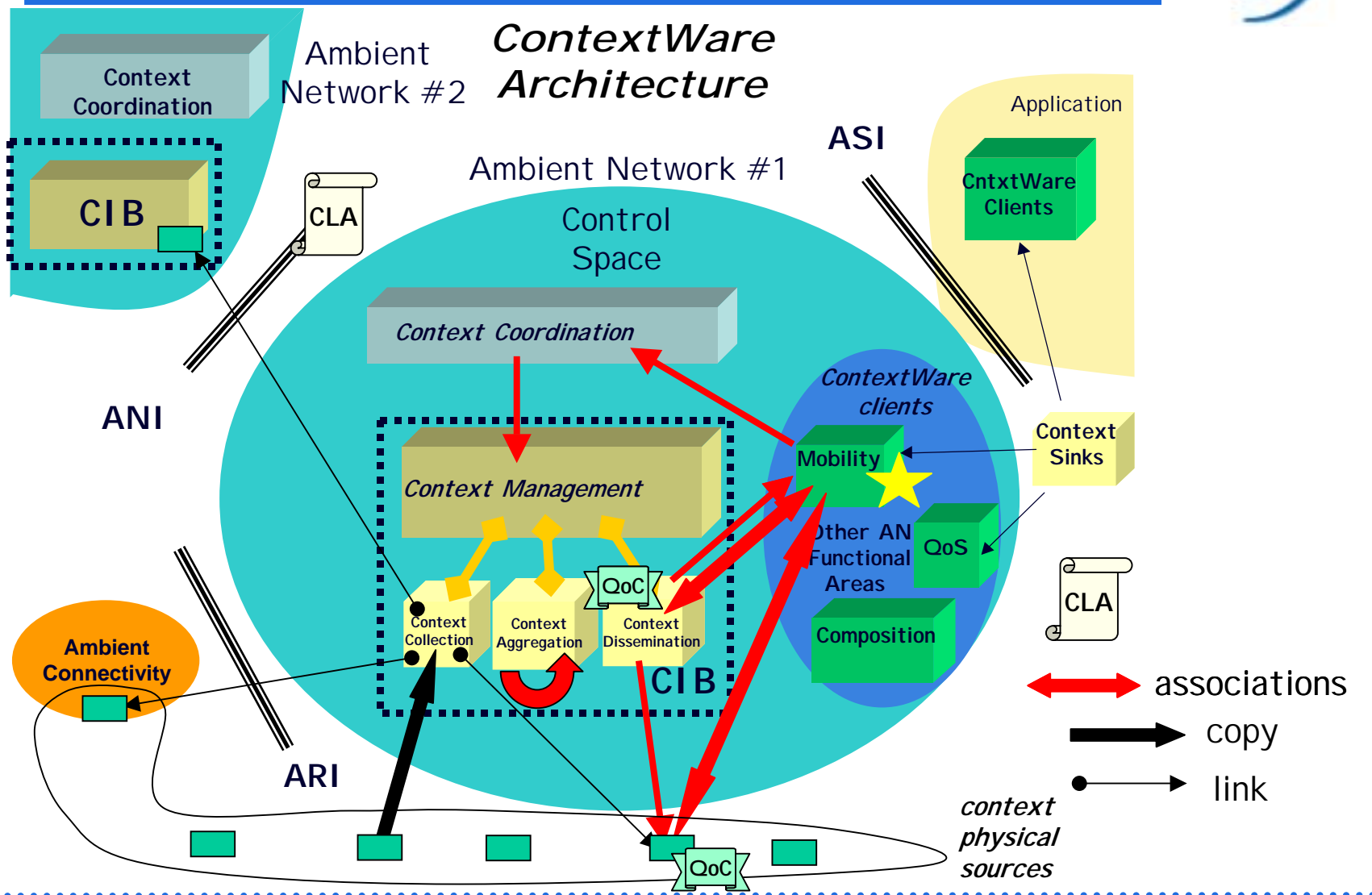


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## Create different levels of “context provisioning” support in the network control space

1. lookup service
  - value of `ctxt_x`?
2. establish associations
  - how changes of `ctxt_x` value are notified
3. dissemination strategies
  - where is `ctxt_x` best stored
4. context processing
  - how to infer `ctxt_x` if not readily available







## *WP6 – conclusions*

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- ❖ Embed context awareness in network-services
- ❖ Enable context-sensitive communications
- ❖ Advantages for network providers / administrators / end-users



*Thank you!*

