

### The topics discussed during the clinic

[https://hait.cs.lth.se/\\_media/emergence.jpeg](https://hait.cs.lth.se/_media/emergence.jpeg)

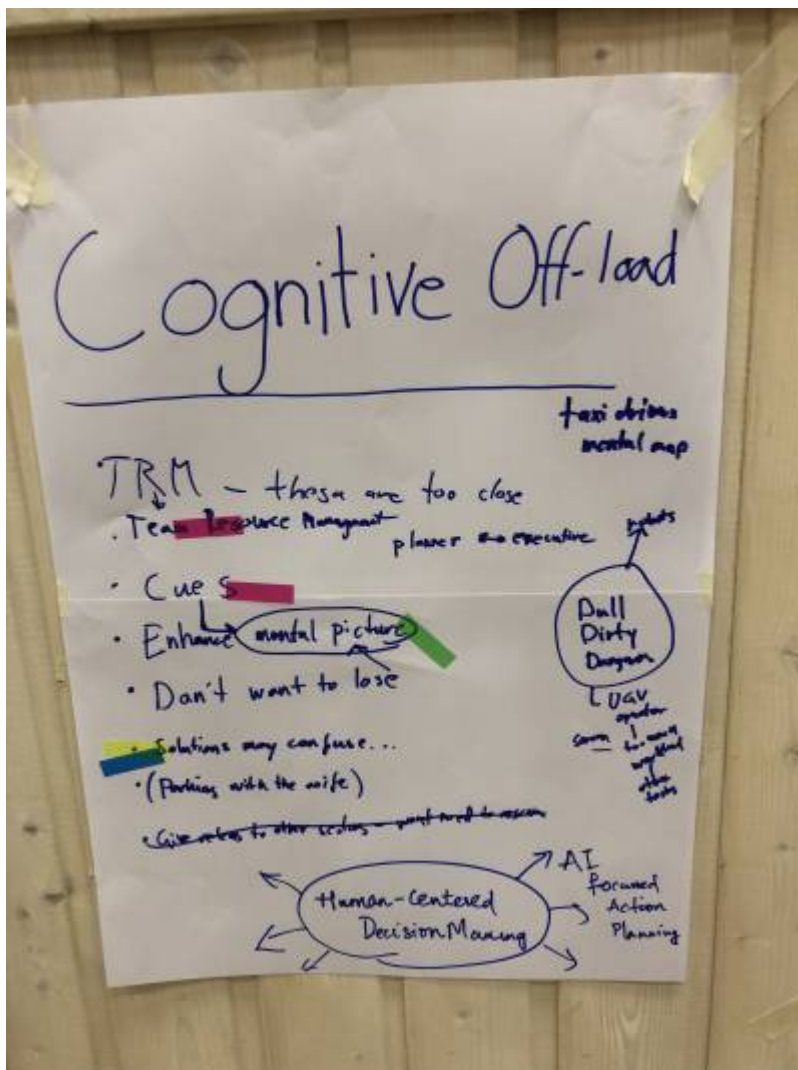
[https://hait.cs.lth.se/\\_media/implementation\\_methods\\_for\\_industry.jpeg](https://hait.cs.lth.se/_media/implementation_methods_for_industry.jpeg)

[https://hait.cs.lth.se/\\_media/individualized\\_ai.jpeg](https://hait.cs.lth.se/_media/individualized_ai.jpeg)

[https://hait.cs.lth.se/\\_media/shared\\_workload.jpeg](https://hait.cs.lth.se/_media/shared_workload.jpeg)

[https://hait.cs.lth.se/\\_media/silent\\_failures.jpeg](https://hait.cs.lth.se/_media/silent_failures.jpeg)

[https://hait.cs.lth.se/\\_media/trust\\_and\\_transparency.jpeg](https://hait.cs.lth.se/_media/trust_and_transparency.jpeg)



### Eight topics were suggested and discussed in the workshop (in no particular order):

- Cognitive offload
- Emergence
- Hybrid cognitive systems
- Implementation methods for industry

- Individualised AI
- Shared workload
- Silent failures
- Trust and transparency

The following paragraphs try to summarise the most important aspects that can be distilled from the notes. Passages, phrases, concepts, or simple words that have been filled through educated guessing by the editor (Elin), are marked in brackets [...]. Terms that are taken directly from the notes are set in *italics*.

Topics or terms that received markers are coded in colour as follows:

1 marker

2 markers

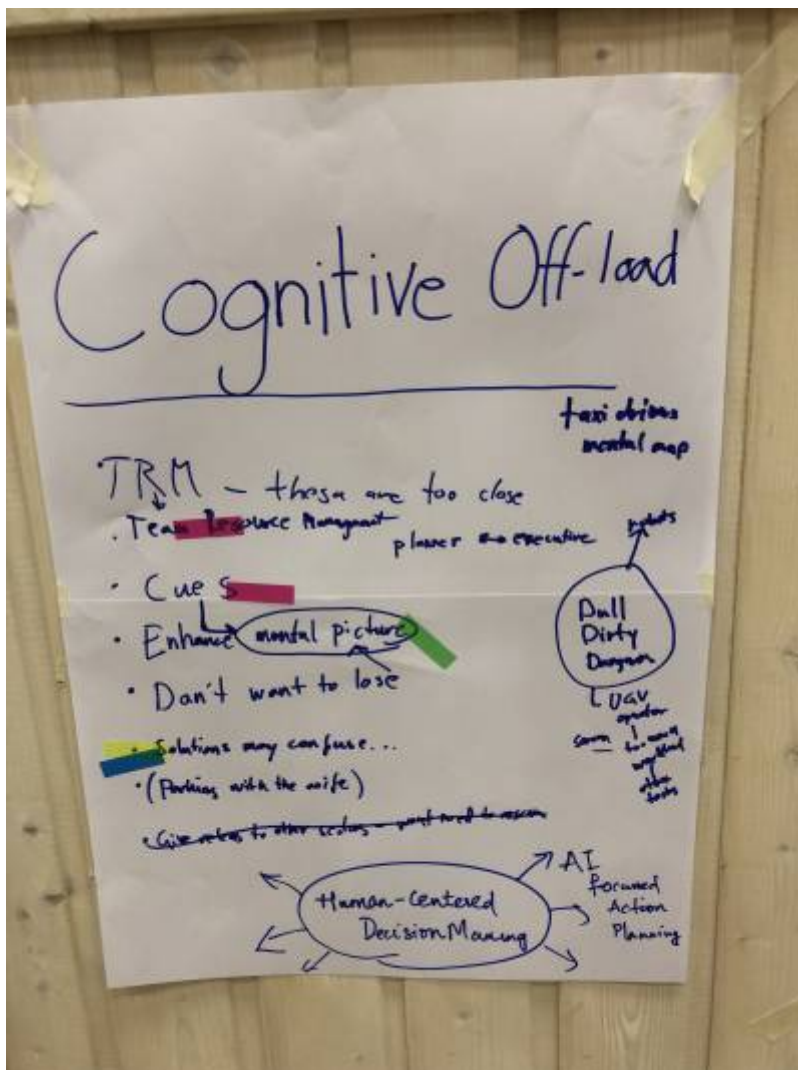
3 markers

4 markers

## Cognitive offload

Aspects mentioned and marked as important in this discussion were *Team Resource Management* (TRM) as well as the idea of *providing / enhancing cues* for a *mental picture*, [to give operators overview], as the aim would be to not lose the *mental picture* of the situation at hand. However, [suggested] *solutions may confuse* [solutions to providing overview, or solutions to directly solving a problem?]. Other items mentioned in this discussion were *human-centered decision making*, with one particular area *AI focused action planning*. *Dull, dirty and dangerous tasks* link robots / machines with operators (example UGV operators), where the issues of generally too *high workload* and handling *other tasks* at the same time come into play.

See also the original chart from the workshop:



[https://hait.cs.lth.se/\\_media/cognitive\\_offload.jpeg](https://hait.cs.lth.se/_media/cognitive_offload.jpeg)

### Hybrid cognitive systems and capabilities

The main questions discussed here were whether such systems should be seen / promoted as *tools or teammates* and whether a transition between these viewpoints should be seen as a *mode switch* or a *continuous (gradual) transition*, which could then also be defined in *three dimensions (competency, authority, and responsibility)*.

See also the original chart including two diagrams from the workshop:

[https://hait.cs.lth.se/\\_media/hybrid\\_cognitive\\_systems.jpeg](https://hait.cs.lth.se/_media/hybrid_cognitive_systems.jpeg)

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