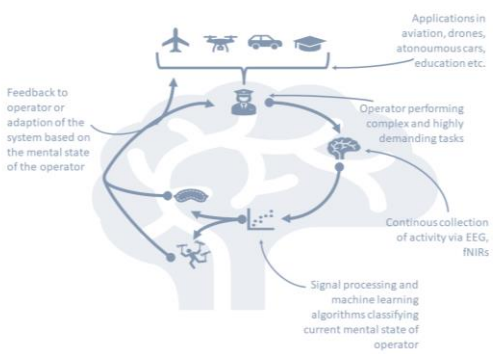
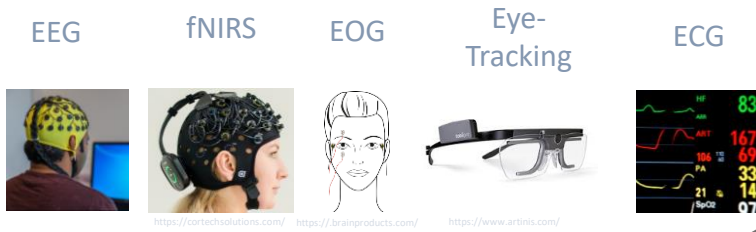


Me:
Marcel F. Hinss
marcel.hinss-ext@enac.fr

Supervisors:
Anke Brock (ENAC)
Raphaëlle N. Roy (ISAE-SUPAERO)



2. Physiological Computing



interface
design with
UAV Paparazzi

1. UAV Pilots, Fatigue & Mishaps



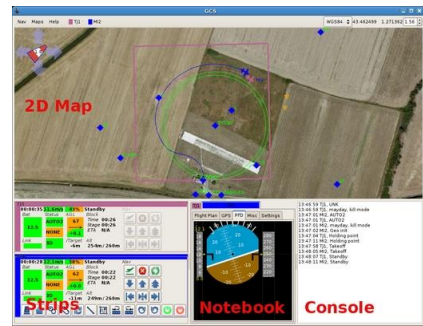
missions
may change
at any time

many tasks &
many things
to observe

often
monotonous
without
breaks

UAV less
redundant than
other planes

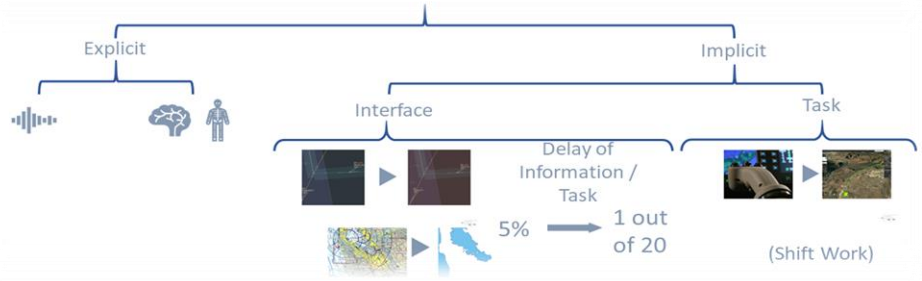
6-8 hour
Operations



interviews
with UAV
operators



3. Adaptive Interaction



References

Garcia, J., Brock, A., Saporito, N., Hattenberger, G., Paris, X., Gorraz, M., and Jestin, Y.. 2019. Designing human-drone interactions with the Paparazzi UAV System. 1st International Workshop on Human- Drone Interaction, CHI'19

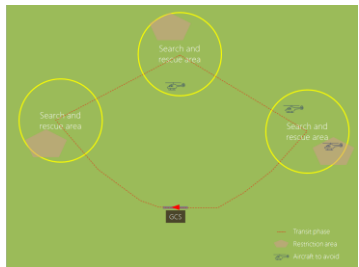
Jahanpour, E., Berberian, B., Imbert, J.-P. & Roy, R. N. (2020) Cognitive fatigue assessment in operational settings: a review and UAS implications. In *Proc. of the 3rd IFAC Conference on Cyber-Physical & Human-Systems* , Beijing, China, Dec. 2020.

Roy, R. N., Bovo, A., Gateau, T., Dehais, F., & Chanel, C. P. C. (2016). Operator engagement during prolonged simulated UAV operation. *IFAC-PapersOnLine* 49(32), 171-176.

experiment



writing
a review
article



teaching
at ISAE-
SUPAERO

Adaptive interaction
refers to systems in
which the system can initiate
changes in the way the human-
machine interaction is conducted.

4. Current Objectives

5. (near) Future Goals