



ENAC - UAV Program



ENAC : The French Civil Aviation University (Toulouse, France)

- MAIAA : Applied Mathematics and Computer Science for Aeronautics
- LII : Interactive Computing Laboratory
- Telecom : Telecom and Computer Network for Aeronautics
- LEEA : Air Transport Economics

Objectives of the UAV Program

- Educational program
- UAV professional Master
- UAV System implementation and testing
- UAVs insertion in the airspace
- Civil UAV application
- Cooperative European and International projects

Research Domains

- Modelling and simulation
- Extension of UAV's flight envelope
- Vision based navigation
- HMI, operational procedures
- Ad-Hoc networks
- Autonomy improvement (4D navigation, collision avoidance)

Partnership

LAAS, ONERA, ISAE, ENM, DLR
Barcelona UPC, TU Munich, TU Braunschweig, TU Delft, University of Modena and Reggio Emilia, Czech Technical University, Geophysical Institute of Bergen University
DGA, US-Army, EADS, Thales, Fly-n-Sense, Aerovision, OFFIS, Visteon
COST, ARTEMIS, Commissariat au développement Durable

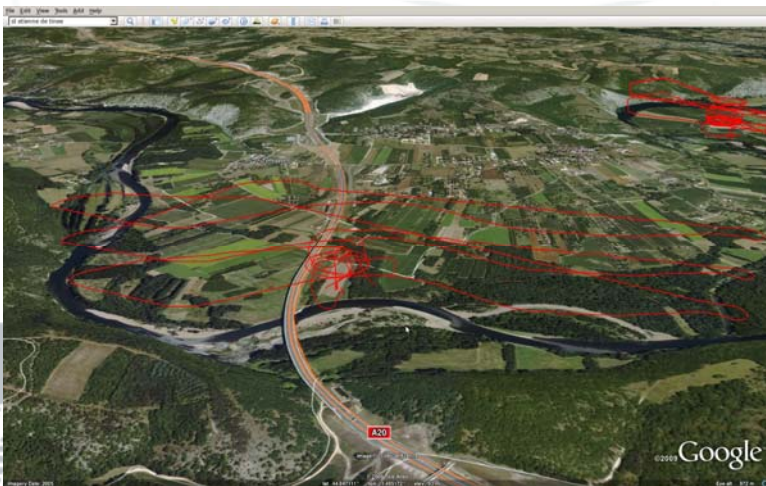




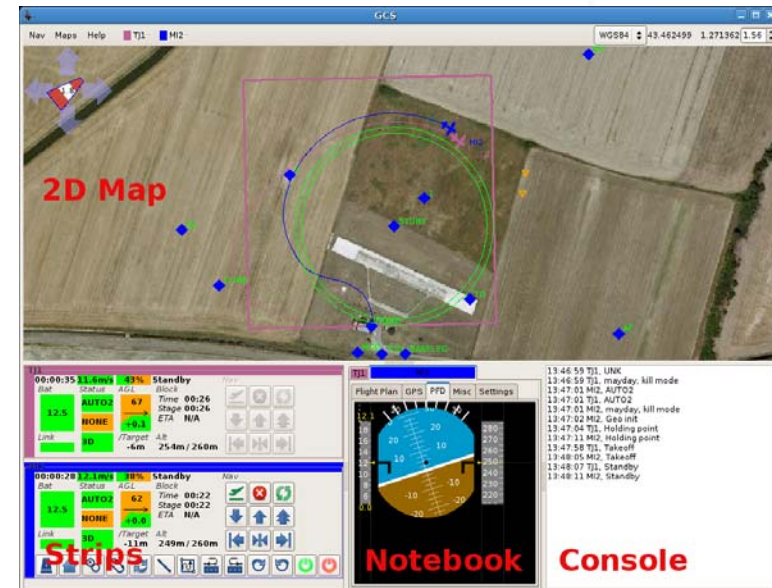
Paparazzi : a complete UAV system



- **Open Source MAV Project**
 - Autopilot
 - Ground Control Station
 - Communications



- Modelling
- Simulation
- Mission management
- Replay

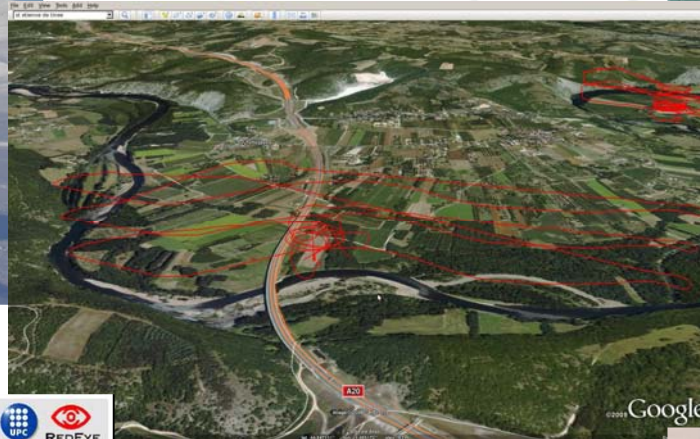




UAS Civil Applications



Atmospheric Research



Hydrological Studies



Vegetation surveillance



Hot Spots Detection



Post Disaster Analysis

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