

MAV Research Center Scientific Committee

Jean-Marc MOSCHETTA (ISAE-SUPAERO), **Henry de PLINVAL**(ONERA), **Simon LACROIX** (LAAS),
Mariana BRAZA (IMFT), **Cathy RONFLE-NADAUD** (ENAC), **Eric DUHAYON** (LAPLACE), **Greg ROBERTS**
(CNRM), **Nicolas POIRIER** (TRACES), **Albane BURENS**(GEODE), **Pierre DURAND** (Laboratoire
d'Aérologie), **Emmanuel BENARD** (ISAE), **Damienne BAJON** (ISAE), **Yves BRIERE** (ISAE)



3rd Annual Garden Workshop, July 1-2 2015



GARDEN WORKSHOP



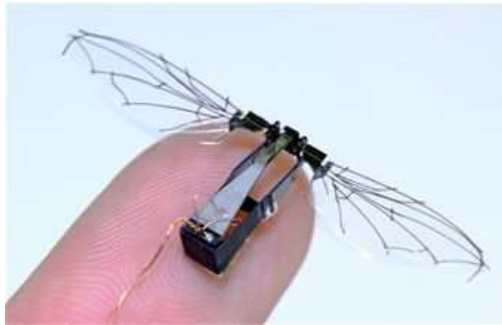
2015

“Les Micro-drones:
innovations technologiques et verrous scientifiques”

120+ registered participants

- Delegates from : Australia, USA, Germany, The Netherlands, Russia, France
- Delegates from **Research Laboratories** : CNRS, ONERA, ISAE, ENAC, LAPLACE, IRSTEA, LABRI, INRAP, IMFT, OMP, TU Delft, RMIT, TU Munich, Politecnico Milano, TRACES, U Arizona, CNRM, TU Braunschweig ...
- Delegates from **UAV companies** : Airborne Concept, AJS, BonX, Delair-Tech, Pixiel, Droniris, Drotek, Sunbirds, RIDEngineering ...
- Other delegates from : RTE, Cap Gemini, Altran Research, DGAC, TTT, Pole AV, THALES, French MoD, Foundation STAE, FPDC, ACCSIMIA, AZ Cons.

Nano ? Micro ? Mini ?



~ 1 cm
~ 10 g



~ 10 cm
~ 100 g



~ 1 m
~ 1 kg

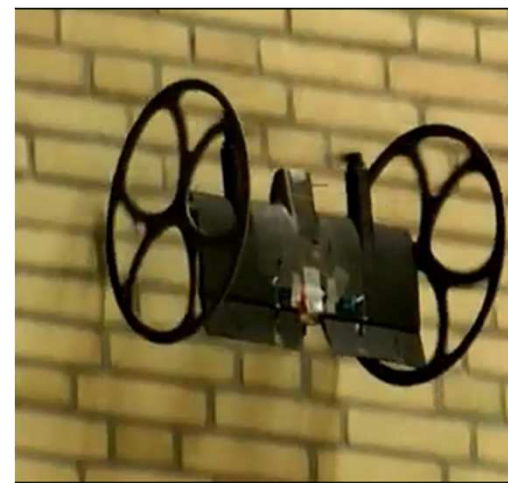
Definiteliely not this



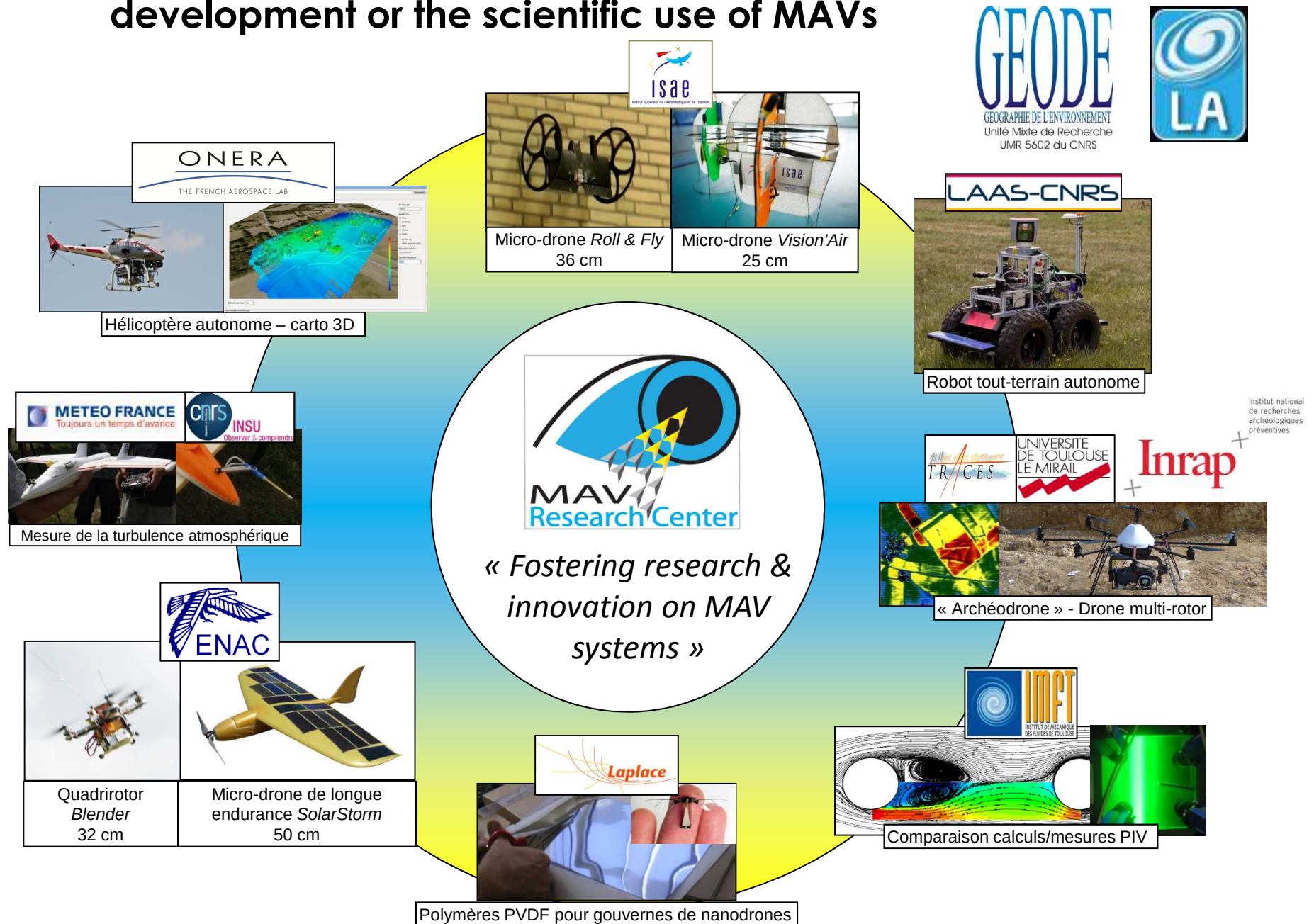
Global Hawk NORTHROP

Why micro ?

- Small is beautiful
- Low logistic footprint
- Disposable / low cost
- Compact / hybrid
- Swarming / pervasive



A network of 11 research laboratories involved in the development or the scientific use of MAVs



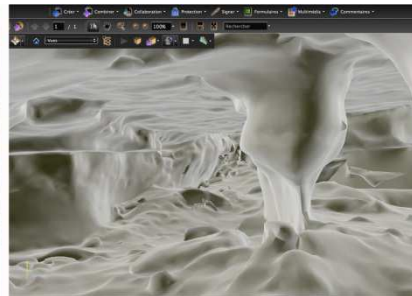
3 new members (2013-2015)

Institut national
de recherches
archéologiques
préventives

Inrap



GEODE
GÉOGRAPHIE DE L'ENVIRONNEMENT
Unité Mixte de Recherche
UMR 5602 du CNRS



Observatoire
Midi-Pyrénées
OMP



MAV Research Center

A scientific community in action



International workshop & flight competition



IMAV2013

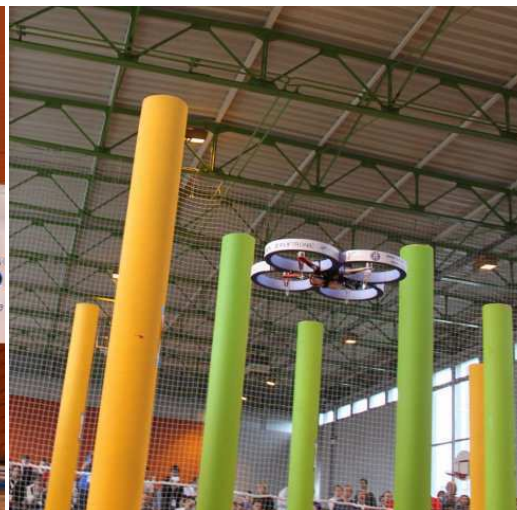
International Micro Air Vehicle Conference and Flight Competition

Toulouse, France, September 17-20, 2013



**50 papers
20 entries
200 delegates**

www.imav2013.org





Toulouse... and beyond



Partnership agreement

« Groupement d'Intérêt Scientifique »

(2015)

**Scientific
Council**

**Steering
Committee**

**Executive
Board**

+ associate
members:
UAV companies,
agencies

LAAS-CNRS

ONERA
THE FRENCH AEROSPACE LAB

TRACES

Inrap
Institut national
de recherches
archéologiques
préventives

**ISAE
SUPAERO**
Institut Supérieur de l'Aéronautique et de l'Espace

Laplace

GEODE
GEOGRAPHIE DE L'ENVIRONNEMENT
Unité Mixte de Recherche
UMR 5602 du CNRS

LA

ENAC

CNRM-GAME

METEO FRANCE
Toujours un temps d'avance

IMFT
INSTITUT DE MECANIQUE
DES FLUIDES DE TOULOUSE

**STAE
TOULOUSE**