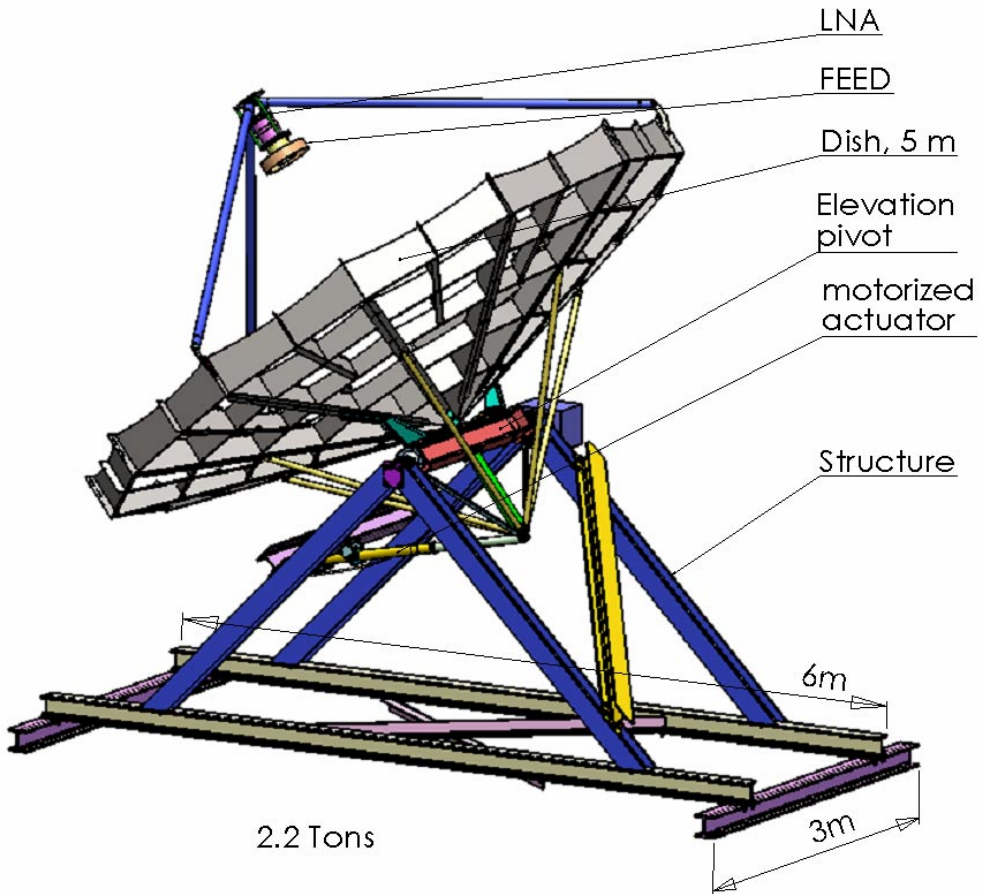


PAON-4



The prototype project PAON-4 (Paraboles à l'Observatoire de Nançay) is designed to evaluate the feasibility and means to implement the mapping of BAO. It consists of four antennas of 5 m (motorized elevation).



Goal of PAON-4 antennas:

Lambda /50 @ 21 cm
Dish diameter : 5 m
F/D : 0,4

motorized elevation:
15°N to 38°S

Time of life :
10 years

The deployment of PAON-4 Before

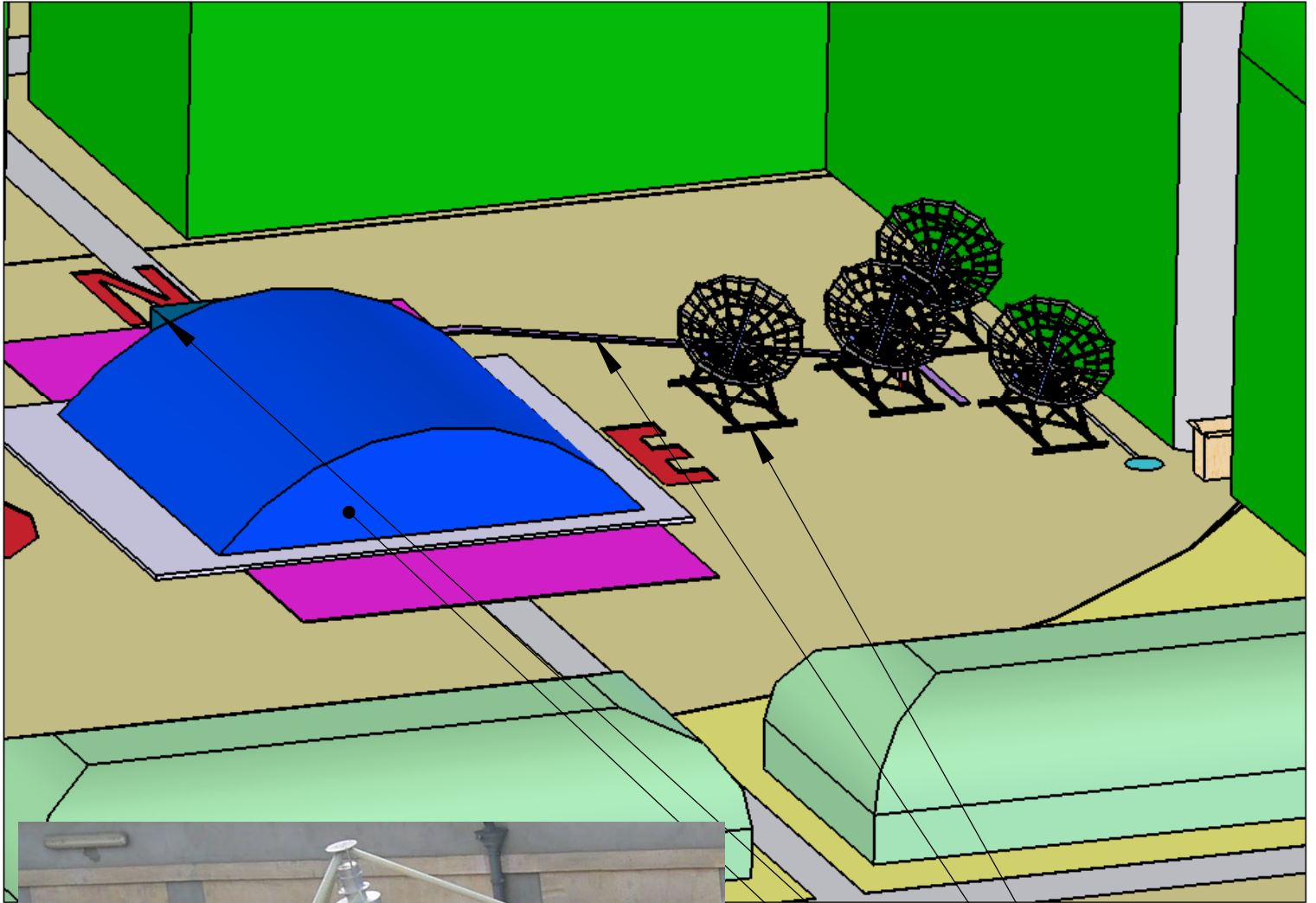


Fig. 1 : The goal, september 2013

- PAON antenna
- Trench
- Lan and electrical power
- Embrace



Antenna prototype, at Meudon, August 2013,

- mechanics,
 - electronics
 - embeded software
- 4 PAON antennas are totally debugged at this time

PAON-4,

September 2013,

The first task of the deployment :

I need

A BIG team! NOW!

October 2013,

the mechanical assembly team :

Montage, AIT :

Sébastien Blanc, GEPI

Jean-Jacques Bousquet, GEPI

Youssef Younes, USN

Stéphane Gilleron, DIL

Sébastien Ouvrard, DIL

Pierre Colom, LESIA

Jean-Michel Martin, GEPI

Christophe Magneville, CEA

Jean Borsenberger, GEPI

Emmanuel Amet, DIL

Dominique Proust, GEPI

Denis Coulmance, DIL

David Polizzi, LESIA

Daniel Charlet, LAL

François Rigaud, GEPI

LAL: laboratoire de l'Accélérateur Linéaire, IN2P3, CNRS

**CEA IRFU: Commissariat à l'Energie Atomique
et aux énergies renouvelables**

DIL, USN, GEPI, LESIA :

laboratoires de l'observatoire de Paris-Meudon-Nançay

F. Rigaud, GEPI, Observatoire de Paris

PAON-4,

21 September 2013 to 13 december 2013

The deployment



Building the Structure



go up the pivot



truck part of the dish.

PAON-4,

21 September 2013 to 13 december 2013

The deployment



It has rained all week



biting cold (-8°C , 17.6 Fahrenheit)



in the dark

**Nothing can stop
a very good
team!**

F. Rigaud, GEPI, Observatoire de Paris

PAON-4,

10 december 2014

State of the deployment



3 antennas (mounts, dishes, motorised actuator) are assemble finished

Next tasks:

- To mount the last dish. (5 days)**
- To adjust location and angle of the mount. (2 days)**
- To excavate a Trench to lay the cables. (2 days)**
- To plug lan and electrical power**
- and playing**