

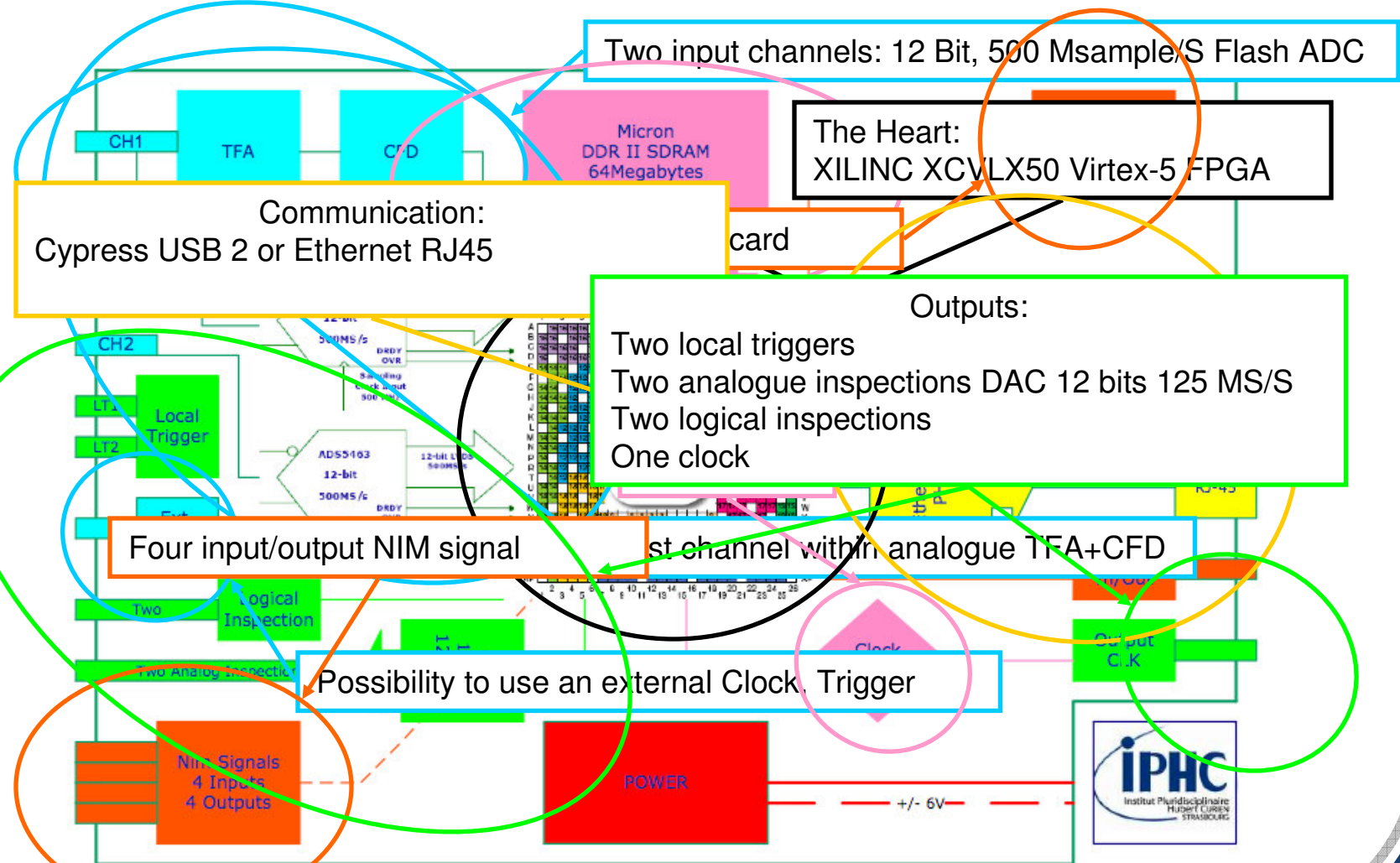
A new digital electronic (dt5*) development at IPHC

M. Rousseau for P. Medina at al.

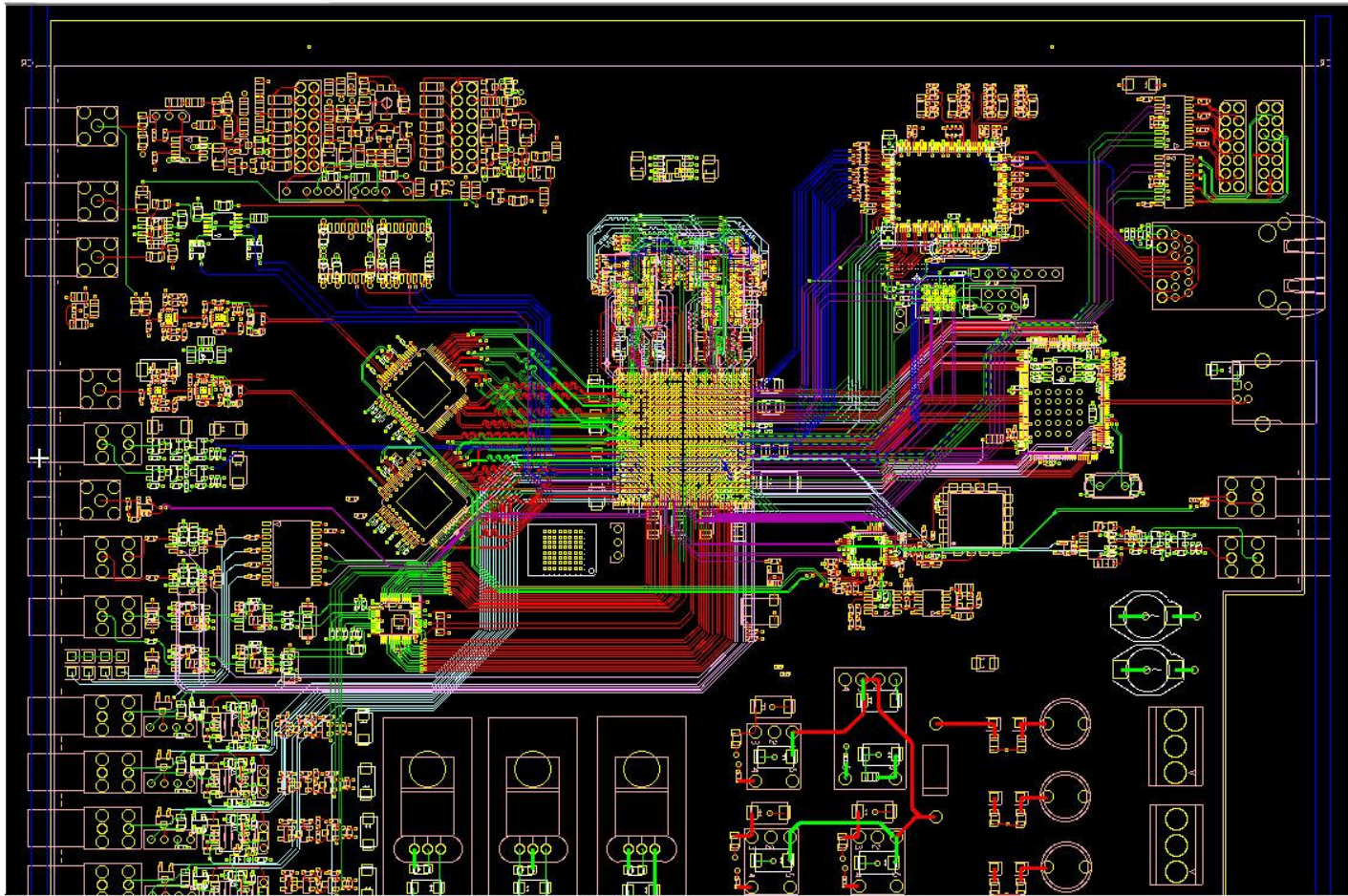
After the development of the TNT2 card and AGATA digitizer, the group of Patrice Medina at IPHC is developing a new Digital card based on a last generation Virtex 5 and two 12 bits 500 MHz Flash ADC.

(* Digital Treatment 500MHz card)

Key Features:



Card "Routing" almost finished



14 layers PCB

Coming next:

- Production of 2 prototype cards for December (around 4K€ /card)
- Dvpt of the User Control software (partially based on TUC for TNT2) in 2010

Target application:

- Oscilloscope mode with 2 channels at 250 MHz or 1 channel at 500 MHz
- Energy mode at 250 MHz, **next step at 500 MHz**
- Analogue CFD & TFA, **TDC implemented in the FPGA (60 ps LSB)**

First result in one year

Could be a solution for PARIS (if needed of digitalization) ?