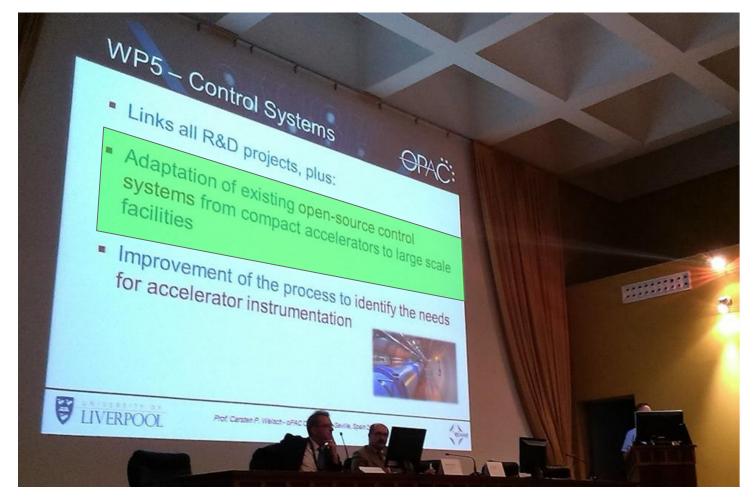
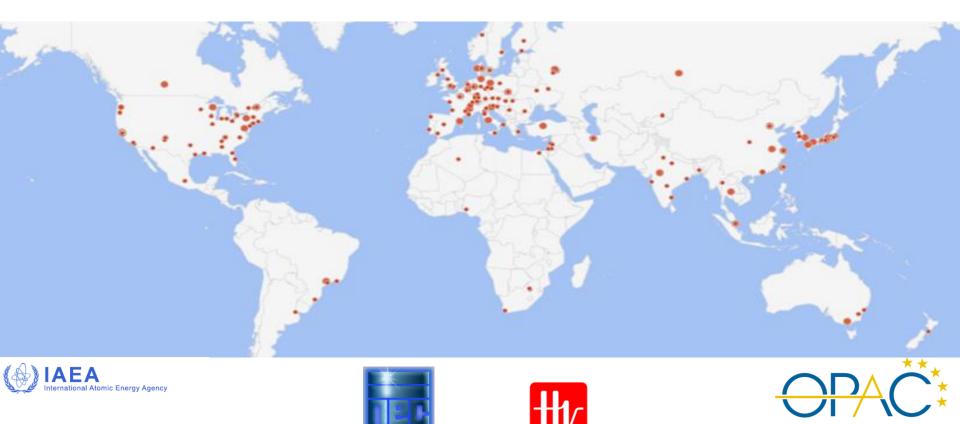
TΔNG control system for electrostatic accelerators







TΔNG control system for electrostatic accelerators







a brief history of accelerator control systems



PAST (knobs)



present (1 PC)



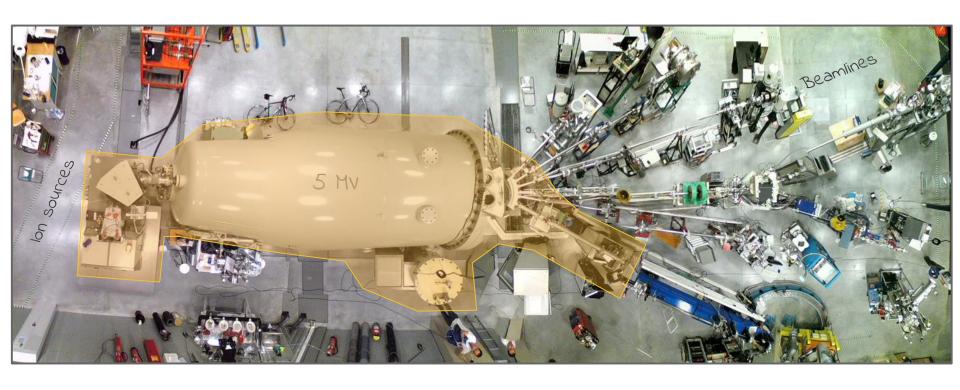
a better present













IN-OUT

problems

HVEE signals

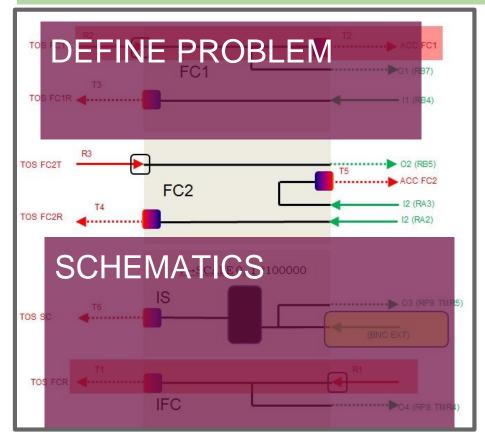
HVEE PC

ACC status out of the vendor PC

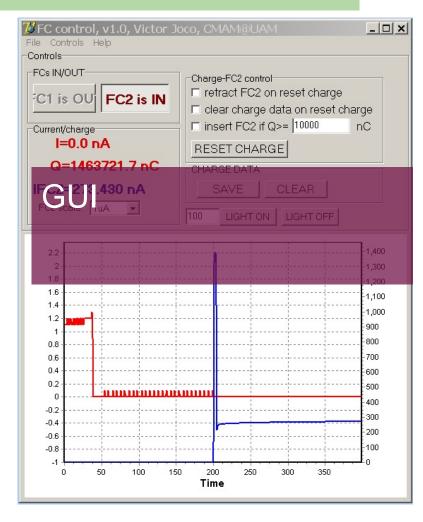


User experiment control

messing arround with DIY solutions



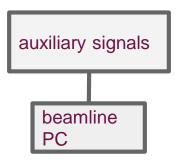


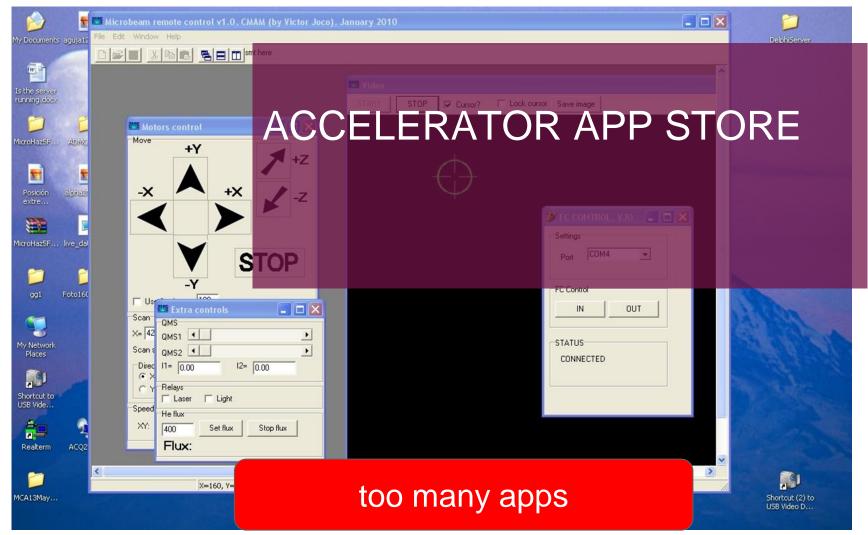




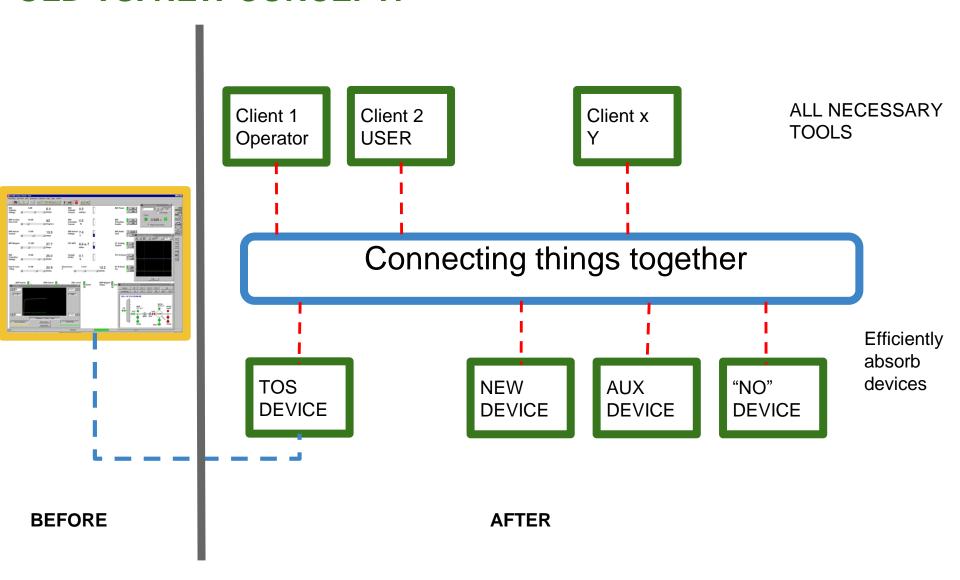
too many boxes

OUT-IN problems





OLD VS. NEW CONCEPT!



Simple, open source + community





Downloads

Resources C

Community P

rtners (

Contac



Connecting things together

What is TANGO Controls?

A free open source device-oriented controls toolkit for controlling any kind of hardware or software and building SCADA systems...

READ MORE

Why choose TANGO Controls?

Because it is easy to use, flexible, and highly scalable. It provides a complete set of features for controlling equipment and lot of services for managing systems.

READ MORE

How to use TANGO Controls?

Just download it and install it. Then reuse or write a device server, deploy and marvel at how it works!

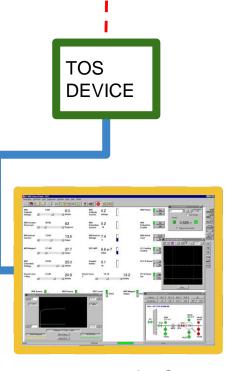
READ MORE

The community

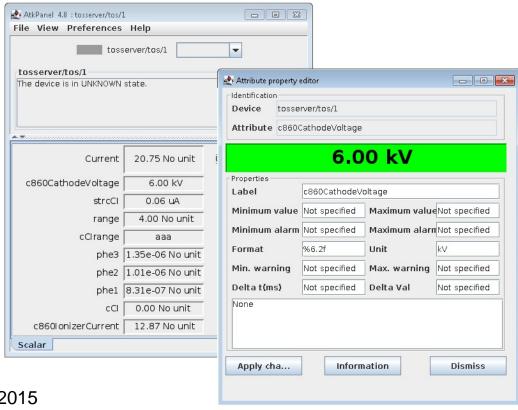
Open Source
SCADA and DCS

OLD CS - TOS - DONE, CONNECTED

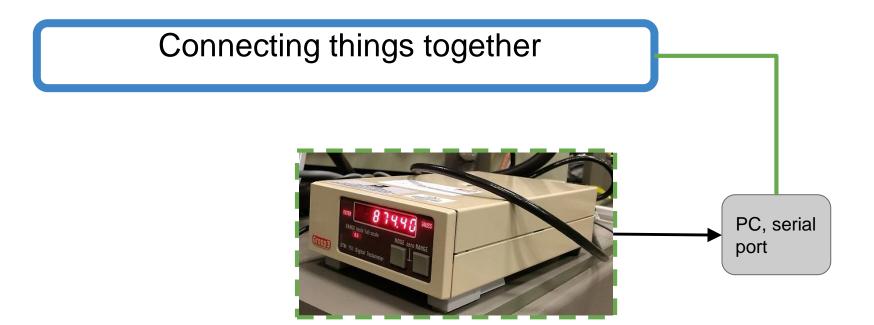
TANGO SOFTWARE BUS



Source code?



JUNE 2015



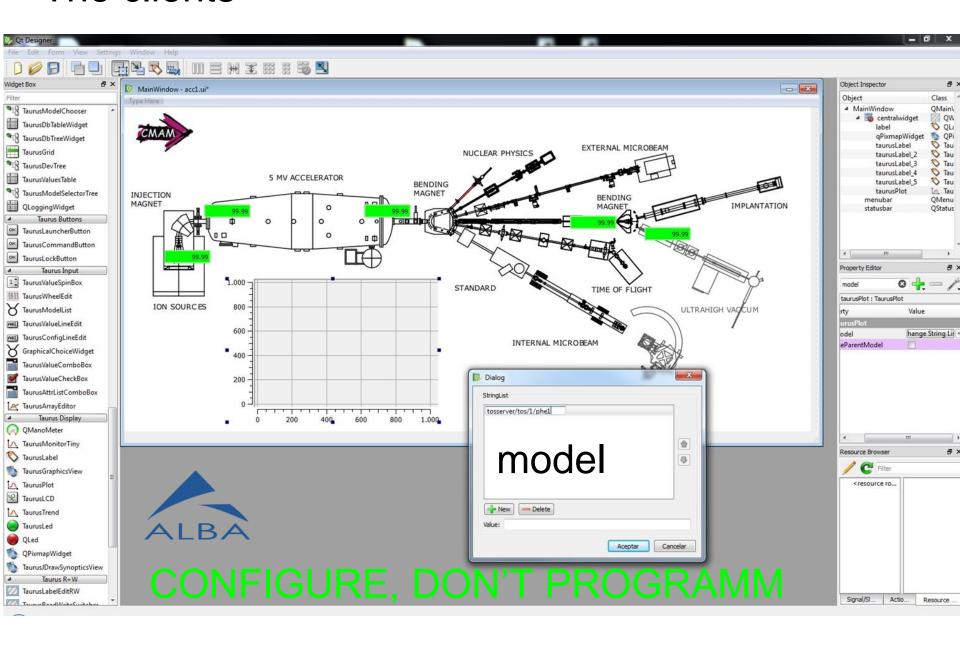
DS pytango server:

ser2 = serial.Serial(port='/dev/ttyAMA0,...) @attribute(dtype=float)

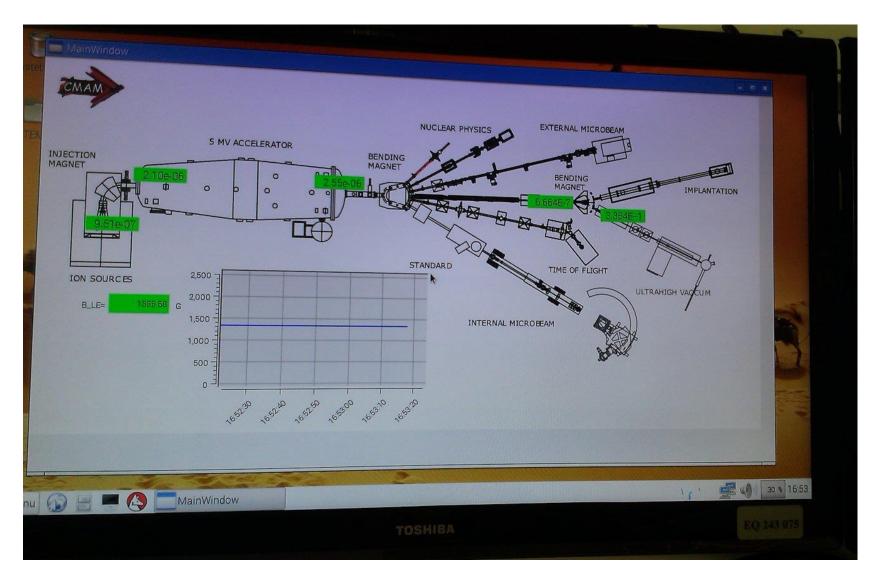
def tesla1(self): return float(ser2.readline()[:-2])



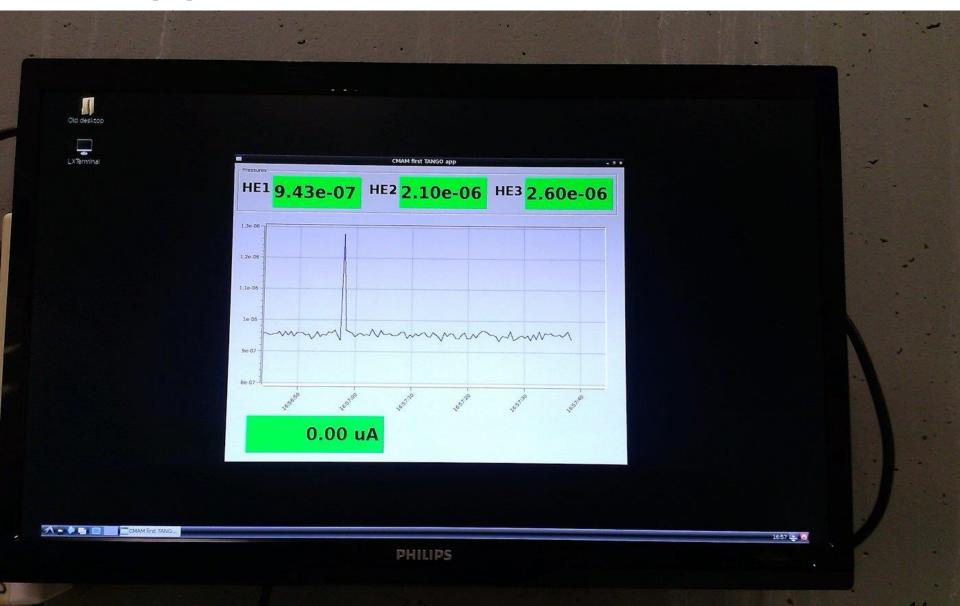
The clients



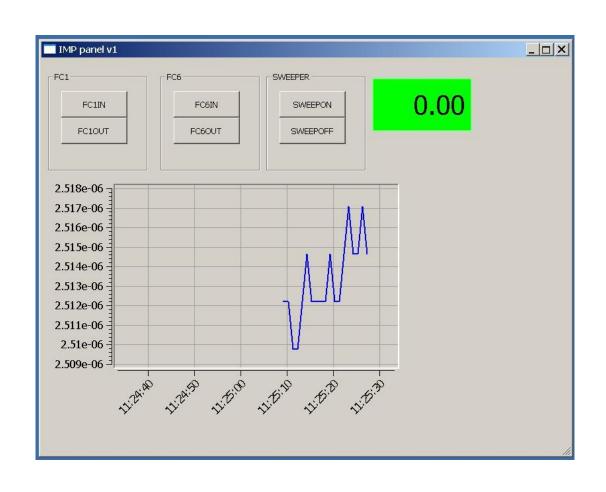
IN PRACTICE



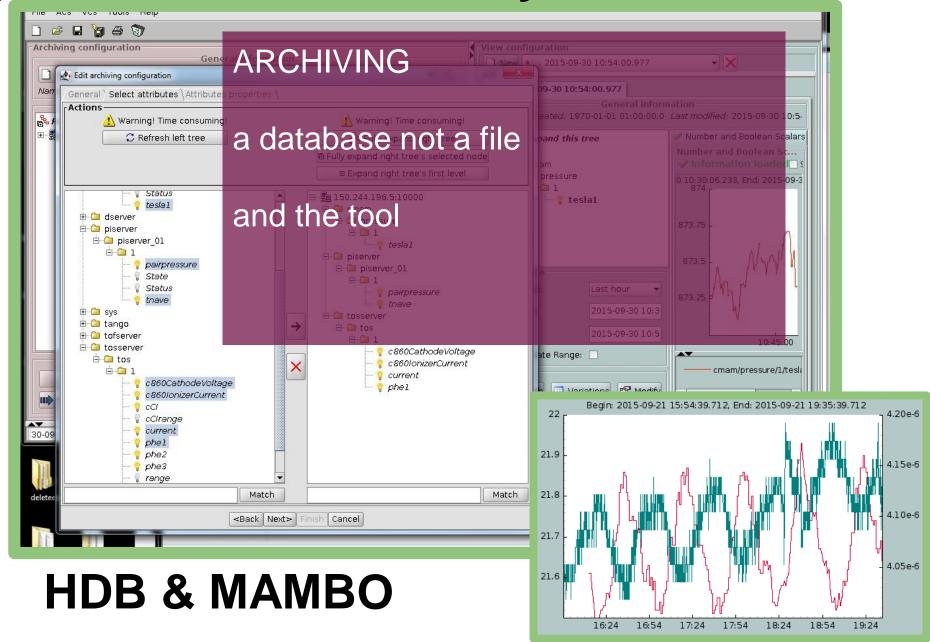
GUI(s)



passing the flag (beamline panels)



just another reason why is better



Conclusion

A change in concept and an open source control system

WORKS



Obsolete hardware







- " New ideas pass through three periods:
 - 1) It can't be done
 - 2) It probably can be done but it's not worth doing
 - 3) I knew it was a good idea all along "

Arthur C. Clarke