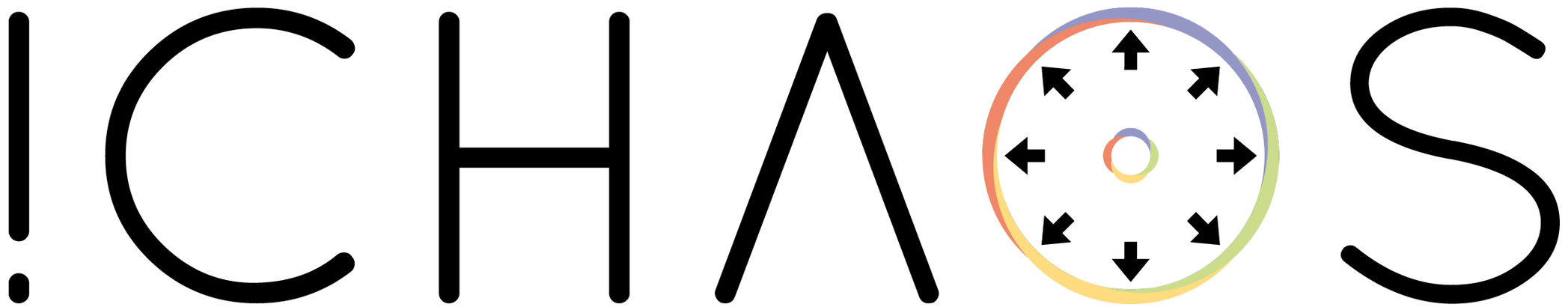
C ontrol system based on a
H ighly
A bstracted and
O pen
S tructure



WP3 STATUS 05/05/2015

A.Michelotti

Status Accelerator Use Case

- **BTF use case achieved the objective of the first feedback through !CHAOS!**
- !CHAOS “light” successfully tested to overcome “run time” issues due to: aged HW/SW and labVIEW Linux bugs
- NI accepted bug and scheduled resolution on next LV release (possible escalation to have the bug resolved in some intermediate patch)
- Introduced !CHAOS support to compile on old Libera Brilliance (armv5tel + linux 2.6.20), successfully run a virtual powersupply CU.
- Introduced !CHAOS support to compile crio9068, successfully run a virtual powersupply CU
- Controversial performance tests realized on the infrastructure

TODO Accelerator Use Case

- Adding !CHAOS support for Libera Brilliance +
- Develop !CHAOS drivers for Libera Brilliance
- Dafne accumulator orbit under !CHAOS
- Adding new drivers for BTF devices in order to have BTF fully controlled by !CHAOS

Status ESCO USE Case

- !CHAOS driver to interface Arduino wireless sensor nodes developed by Perugia
- A testbed in Perugia that reproduces the sensors to be installed in Touschek successfully pushed their data on LNF infrastructure
- WP3/WP4 and LNF Technical division meeting to define actions and choices

TODO ESCO Use Case

- Test and install sensors on Aula Touschek
- Test and install control on UTA
- !CHAOS Driver for conditioning (climaveneta)
- GUI to monitor and control the system
- Algorithm to realize a useful feedback on UTA

thanks you