

# TANGO sourceforge repositories

- Present situation
- Proposal
- Roadmap

Jean-Michel Chaize  
on behalf of the ESRF software group  
Tango collaboration meeting  
May 2013



# The present situation

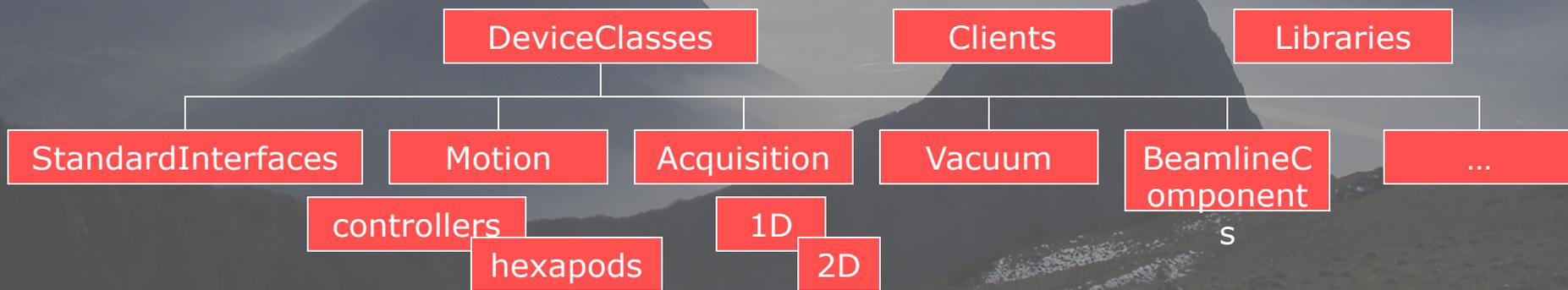
- ✦ A lot of classes!
  - (DESY,SOLEIL,ESRF,...)
- ✦ Tango-ds is very active.
  - There is also some hidden activities not on sourceforge
- ✦ Sourceforge CVS repository
- ✦ Sourceforge SVN repository

# The present situation

- ✦ Discrepancies between SVN and CVS trees
- ✦ Duplicated projects
  - Same projects in SVN and CVS, which one is the last?
  - Several implementations for the same device
    - E.g Mar345, Pvcam, and others
- ✦ Some dead projects not clearly identified
- ✦ Categories are fuzzy
  - Instrumentation may contains everything...
  - Acquisition, InputOutput...
- ✦ Some utilities, clients and libraries located inside the tree
- ✦ AbstractClasses duplicated and located at any places
- ✦ TangoClassID.txt and MyClass.xmi sometime not committed! And description not filled.
  - Difficult to understand the contents of a class...(need to read the code)

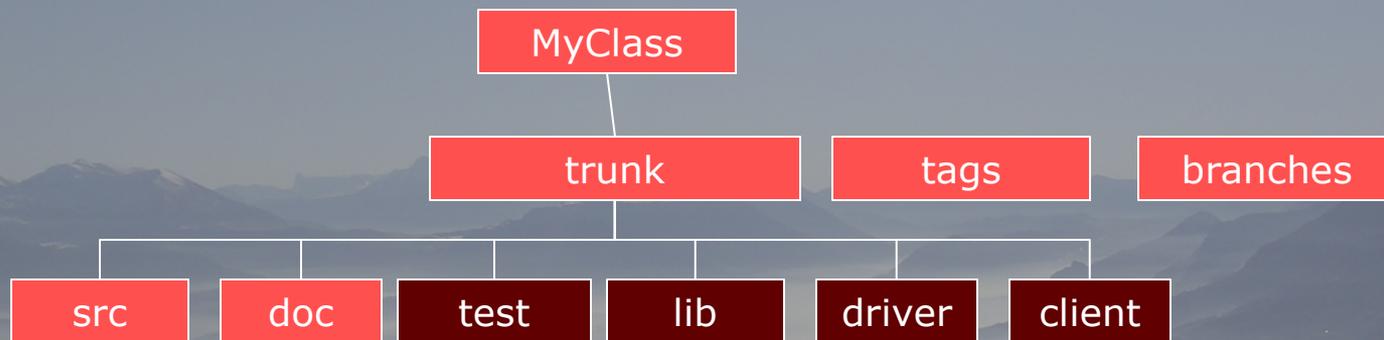
# New tree proposal guidelines

- ✦ Keep all the Abstract interfaces in a single leaf
  - Rename it as StandardInterfaces (may also be concrete)
- ✦ Define clearer classification
  - Split Instrumentation
  - Split Motion
- ✦ Move up general libraries and utilities in an upper leaf



# New tree proposal guidelines

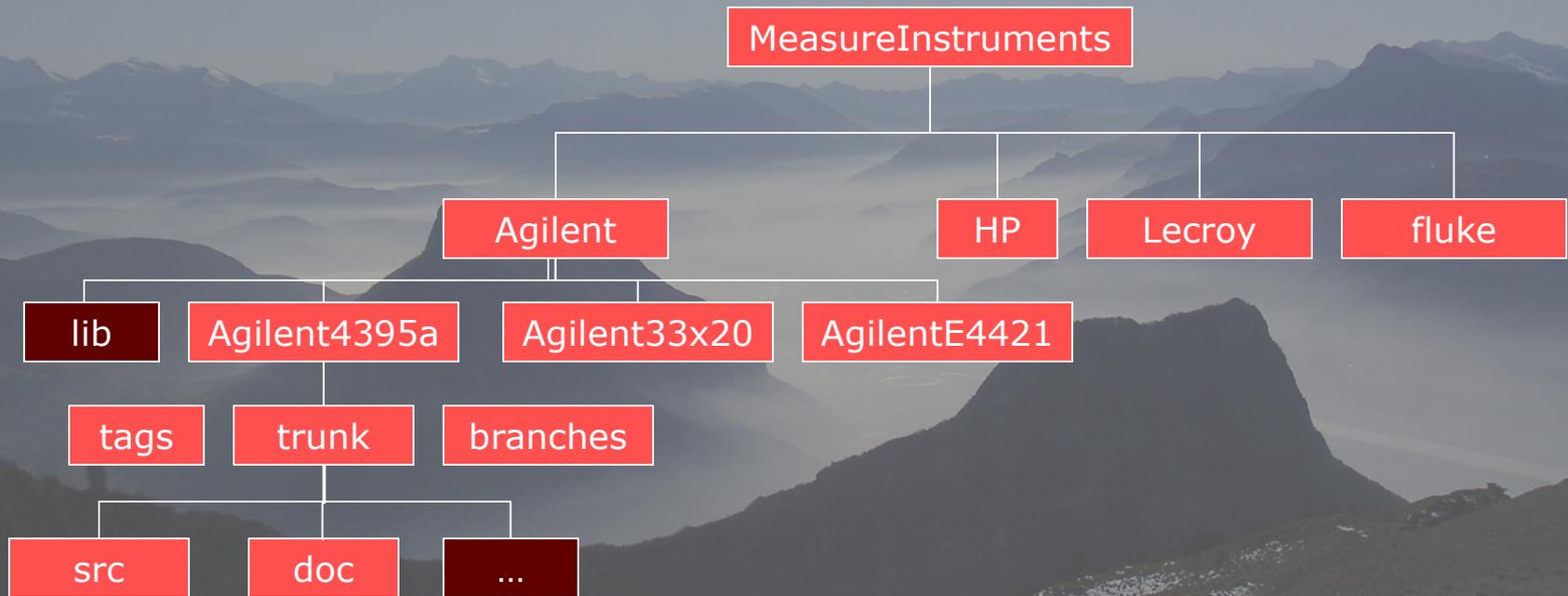
- Define a standard manner of organizing the things



MyClass.xmi  
TangoClassID.txt  
Makefile  
Pom.xml  
\*.cpp  
\*.h  
\*.py  
Org/tango/MyClass  
/\* .java

# New tree proposal guidelines

- ◆ Group by constructor name when reasonable



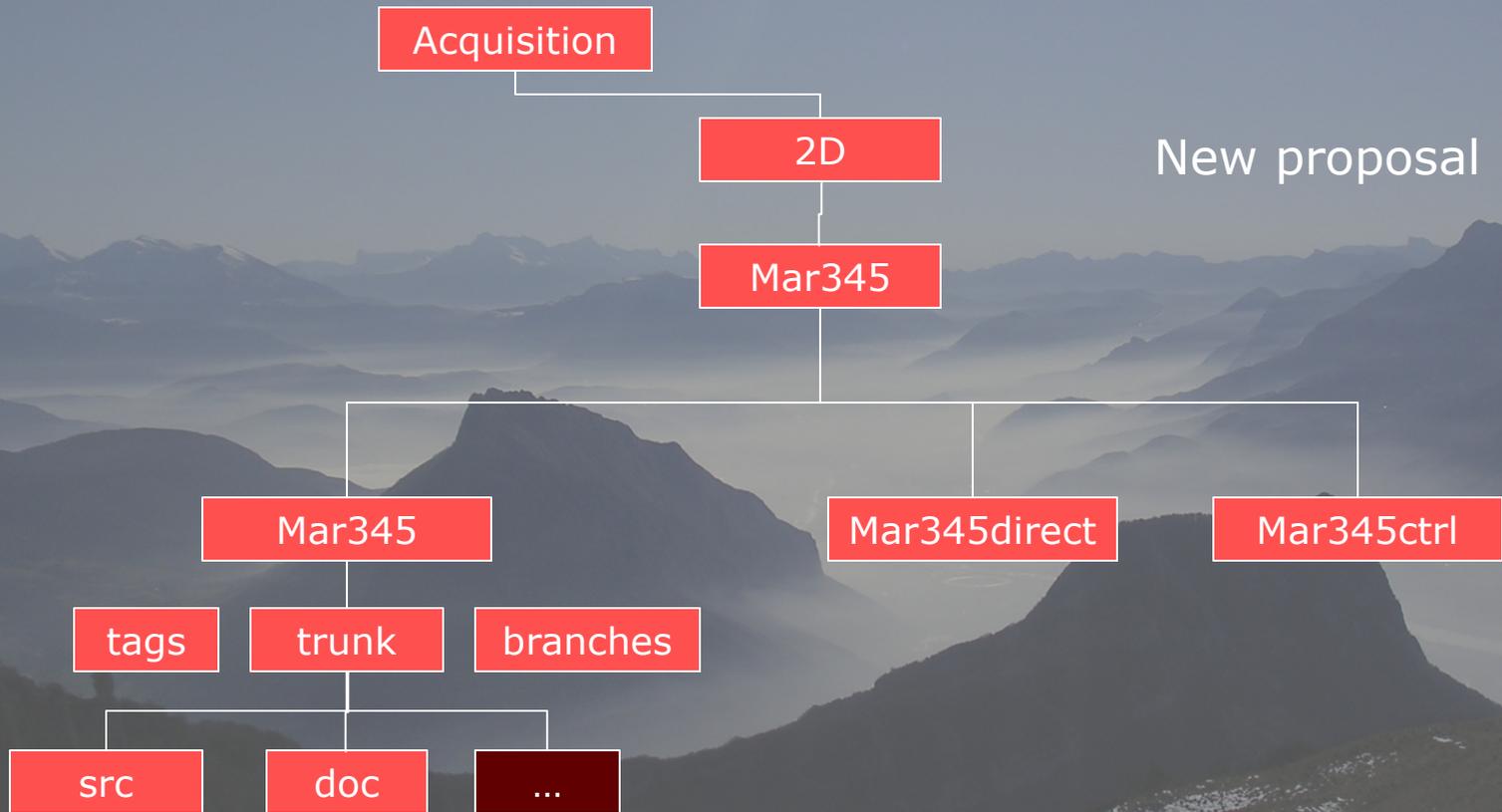
# New tree proposal guidelines

◆ When several implementations exist



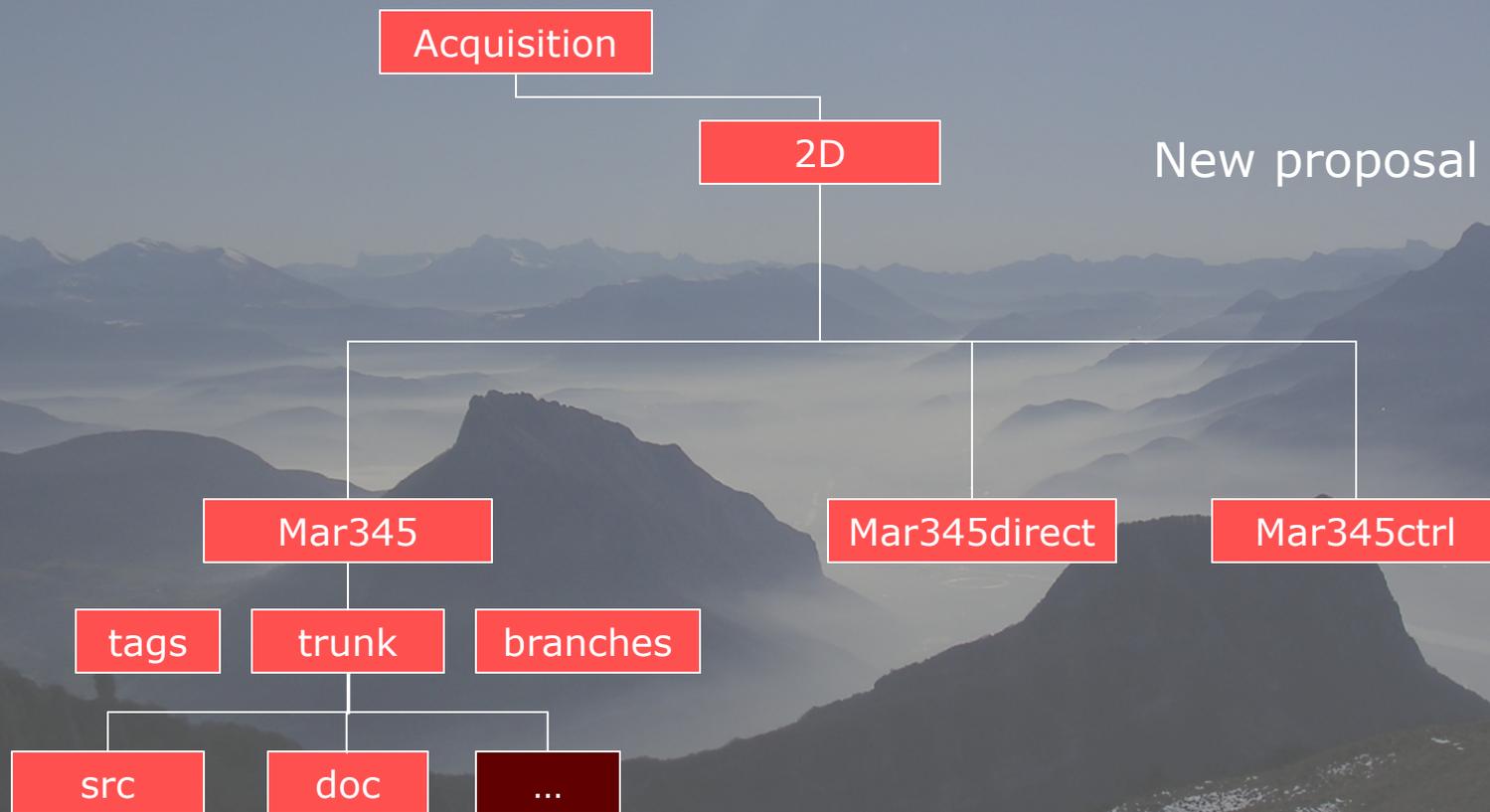
# New tree proposal guidelines

◆ When several implementations exist



# New tree proposal guidelines

◆ When several implementations exist



# Proposal first layer categories

- AcceleratorComponents
  - Linac,Rfampli,
- ◆ Acquisition
  - 1D (Mca, ...) , 2D (Ccd, pixel detectors, etc...)
- ◆ BeamDiagnostics
  - Bpm, liberas, x bpm, tune monitors etc...
- ◆ BeamlineComponents
  - Mirrors, monochromators, diffractometers, slits,lenses,
- ◆ Motion
  - Controllers, hexapods, orthonomicmotion, tables
- ◆ CounterTimers
- ◆ MeasureInstruments
  - Oscilloscopes, spectrum analyzers, multimeters,
- ◆ InputOutput
  - VME/PCI/IO boards, remoteI/O (PLCmodbus,WagoIO,)

# Proposal first layer categories

## ◆ Communication

- Serial, sockets, Labview DataSocket, Modbus,

## ◆ Vacuum

- Ionpumps, gauges, valves, Rgas,

## ◆ Temperature

- Thermocouple controllers, cryogenic control, thermal feedbacks,..

## ◆ Security

- Gamma monitors, Neutron monitors...
- Personal Safety systems, machine interlocks etc...

## ◆ SoftwareSystems

- Sequencers, Alarms, Archivers

## ◆ Simulators

## ◆ SampleEnvironment

## ◆ MagneticDevices

## ◆ OtherInstruments...

# Migration: roadmap

- Set of Scripts ready
  - Clean CVS Remove empty dirs, remove Attics, remove Obsolete....
  - migrate CVS to SVN
  - refactor SVN to new structure create trunk and tags when not done
  - Create sub src and doc and move files inside
- Configuration file prepared
  - 270 SVN Tango-ds projects + 230 CVS = 500 projects reassigned
  - Test migration done on local copy
- First week of june:
  - Close CVS + SVN
  - Clean CVS
  - Dump CVS in SVN DeviceClasses + Jclients
  - Refactor SVN
  - Re-open SVN
  - Each one check his(her) project
  - Restart the automatic generation of the download web page

# Guidelines

- ◆ Describe correctly the class in the code Class “Description ”
  - Automatically assigned to class properties
- ◆ Use of Pogo should be the rule (even for python)
  - Reinforce standardization, fields for description...
  - Automatic extraction of the documentation by a robot
- ◆ Commit the TangoClassID.txt or \*.xmi correctly filled
  - With names, description,
- ◆ Commit any extra piece of documentation

**Questions?**  
**Remarks?**  
**Proposals?**

