



130nm Technology

Old vendor of 130nm CMOS:

Fabrication services for sale

Contact people fired

Existing contract valid until end 2015

..... around the time when we produce
our chips



Alternative technology

TSMC 130nm CMOS via IMEC (Belgium)

Similar to old technology

(simulations show as good or better analog performance)

Monthly MPWs

Engineering run cost ~ 300 k\$ (cf ~ 450 k\$)

6 week delivery (good experience of fast deliveries so far)

Available now to Europractice subscribers

Radiation tolerance untested (programme started)

MPW die size > 25mm² (can be negotiated.....)

Work in progress:

Design of radiation test structures – tests in ~ 3 months

Full mixed-signal design kit in preparation (few months)

Training will be organised soon

Common IP blocks to be shared



Sub-detector strategy

VeloPix for Velo:

Change immediately to TSMC

PACIFIC for SciFi:

Finish design for May MPW with old vendor
(chips available for detector tests)

Then change to TSMC

SALT for UT:

Change immediately to TSMC

GBT chips will be produced as soon as possible (old vendor)