

# AIDA

**Advanced Infrastructure and Detectors for Accelerators**

Preparation of new FP7 Proposal  
on  
detector R&D and infrastructure

# History; goal

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Follow up / retry of DevDet  
work packages redefined

Funding requested

10 M€, to be matched by similar amount by  
proponents (\*1 to \*2 the EU amount)

Participation

being reviewed

# Work packages

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WP 1 (MGT) : Project management and documentation

WP2 (COORD) : Development of common software tools

2.1 Detector geometry, calibration & alignment

2.2 Reconstruction and analysis software algorithm

2.3 Parallelization of software framework to exploit multi-core processors ???? ?

WP3 (COORD) : Microelectronics & Detector Integrated Electronics

3.1 3D interconnection of microelectronics and semiconductor

3.2 CMOS detectors

3.3 Microelectronics technology and tools ?

WP4 (COORD) : HEP detectors and industry

# Work packages, cont. 1

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WP5 (SUPP) : Transnational Access to DESY test beam

WP6 (SUPP) : Transnational Access to CERN test beam and irradiation facilities

WP7 (SUPP) : Transnational Access to European Irradiation facilities

WP 8 ( RTD) : Equipment and improvement of beam & Irradiation lines

8.1 : Low energy beam at CERN

Frascati beam ?

8.2 : Upgrade of proton & neutron irradiation facilities at CERN

8.3 : General beam line equipment :

8.4 : Stand-alone detector equipment for beam tests

# Work packages, cont. 2

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WP9 (RTD) : Medium advanced Infrastructure for detector R&D

9.1 : Gaseous tracking facility

9.2 : Precision pixel infrastructure:

9.3 : Granular calorimeter studies infrastructure

9.4 : Qualification of material for detectors

WP 10 (RTD) : Integration of sub detectors for a combined beam test

10.1 : Coordination of combined tests

10.2 : Common DAQ and detector control systems

10.3 : Integration of individual tracking detectors

10.4 : Integration of large scale calorimeters

# Participation

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Research institutions from EU member states  
via national contact  
establish the list beginning of October

Others

funding possibilities have to be seen case by case  
more difficult

Try to reduce number of “partners”  
have ‘substantial’ funding for partners

Each partner should concentrate on one task (or very few)

No ‘limit’ on associate partners (they receive no EU funds)