



Midterm evaluation 2014:

The evaluation panel recommended that, given the increased demand for valorisation, the detector R&D group develops a strategic plan dealing with balancing core Nikhef activities (curiosity driven research) with valorisation activities, IP and spin-offs.

Our Great Stuff Matrix - Make things .. happen!

Goals

Strategy

Measures

Invent new technology

Small signals:
ps, ng, aC, nm, μ K,
zF, xX

- Single e⁻ and γ on chip
- 10 ps timing chip
- ng on a chip
- Optical alignment

- Thin membranes (MEMS)
- Integrated MEMS accelerometer
- Fast frontend

Upgrade existing science programs

Ultimate tracking

- Data driven readout chip
- Fast data links Gb/s
- Radiation hard Silicon
- Gaseous pixel sensor

- Thin spark proof protection layer
- Photonics chip
- Advanced materials

(Co) Initiate new physics experiments

Communication

- Staff/WAR ET/MT/CT
- External (TU, SRON)
- Industry
- Education

- ILC
- eLisa
- Table top
- Neutrino & DM
- CMB

- TPC
- Opto-electronics
- SiPM & SPAD

Knowledge transfer - Industry

Unconventional Tomography for specific applications

- Spectral CT
- Proton radiography
- Muon tomography
- Mammography

- Smart pixel

Our Great Stuff Matrix - Make things .. happen!



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Plaetje van een spronje door Enrico Schioppa Nikhef PhD student

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