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European Committee for Future Accelerators



Detector R&D Roadmap
TF9 symposium
Closing address

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Warmest thanks to :

ECFA

Speakers

TF9 board experts

ECR group

Attendees

For all your contributions



**The symposium was designed to
trigger discussions**

Objective met !!



Audience :

~50 instantaneous , 80 total (?)

50 % ECRS

40 % followed training in past 3 years

60 % trainers



Training is not by itself a final objective

Should contribute to motivate/help (young) scientists to build and operate instruments

**BUT ALSO RECOGNITION AND
SUPPORT ARE NEEDED**

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FUNDAMENTAL / TECHNOLOGY **DETECTORS / ACCELERATORS**

ALL OF THAT IS PHYSICS !!!



Concomitant reasons potentially heralding paradigme change :

COVID

CLIMATE WARNING

SECURITY / BORDERS BEING ERECTED AGAIN

GEOGRAPHIC AND HUMAN DIVERSITY

CONSIDERABLE INCREASE OF PROJECT DURATION

ARRIVAL OF MATURE DIGITAL TECHNOLOGIES

ALL THIS WILL PUSH US TO EVOLVE OUR TRAINING/EDUCATION MODELS



Build on the existing :

ECRs say there's not enough offer !

Taking into account the community input/suggestions

More hands-on

Template model of academic instrumentation program

Offer more opportunities to carry out instrumentation (now ...)

Horizontal training : ECRs to ECRs (awards for young trainers)

Add emerging topics : quantum detectors, quantum computing ...

Improve recognition :

For those involved in R&D programs

For those involved in instrumentation training actions (awards again)



Proposal : yearly training symposium

To better coordinate & develop training / education in Europe : detectors & accelerators, adjacent fields ...

Proposal : common portal site

To announce/promote all training actions



**Proposal : real / remote / VR labs
network**

Offered by National labs, international facilities

**Proposal : create a cobuilt academy-
industry school**

1/2 academic - 1/2 industry

Of adapted format

Massively Hands-on - Challenge ? - Hackathon ?



Proposal : build a coordinated EU grant project

To implement these proposals starting and evolving from the existing

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Invited feedback of community before May 7th

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