

# *Welcome to the third EuCARD/AccNet TLEP3 miniworkshop*

*J.P. Koutchouk, EuCARD Coordinator, CERN*

# What is EuCARD?

A joint venture of 38 European « legal entities » representing some 43 accelerator laboratories, universities, research centers and 3 private companies,

To which about 40 laboratories and universities are *associated worldwide* through networks,

Taking the form of a **FP7 « Integrating Activities » 4-year** project (1 April 2009 – 31 March 2013), including

- R&D (87%),
- networking (10%)
- and open access to two facilities (« Transnational access », 3%).

*Additional charge by the EC:* Contribution to the emergence of sustainable collaborative structures in the field of accelerator research and development.

# AccNet in EuCARD

1	MGT	J.P. Koutchouk, F. Zimmermann, S. Stavrev/CERN
2	Dissemination	R. Romaniuk/WUT, K. Kahle/CERN
3	Neutrino network	V. Palladino/U. Napoli
<b>4</b>	<b>Accelerator sciences networks</b>	<b>F. Zimmermann/CERN, P. Spiller/GSI, V. Scandale/CNRS</b>
5	Access to HiRadMat@SPS	I.Efthymiopoulos/CERN
6	Access to MICE	N. McCubbin/STFC-RAL
7	High Field Magnets	G. De Rijk/CERN, F. Kircher/CEA
8	Collimation & Materials	R. Assmann/CERN, J. Stadlmann/GSI
9	NC linac technologies	E. Jensen/CERN, G. Blair/RHUL,
10	SC RF technologies	O. Napoly/CEA, O. Brunner/CERN
11	Novel concepts	M. Biagini/INFN, R. Edgecock/STFC-RAL

# WP 4 Accelerator networks



- The goal: the brainstorming place for the accelerator community in Europe (FP7 project), and beyond (USA, Japan,...)
- The instruments: topical miniworkshops, pushing new ideas or new collaborations (solutions for the LHC upgrades, crab cavities, higher energy LHC, solutions for electron-cloud issues, plasma wakefield acceleration,...); exchange of experts.
- No taboo, no commitments, all inputs welcome!

*EuCARD/AccNet, focusing on hadron colliders, RF and lately plasma wakefield acceleration will extend its activities to all accelerators performance frontiers in EuCARD2 (from June 2013).*

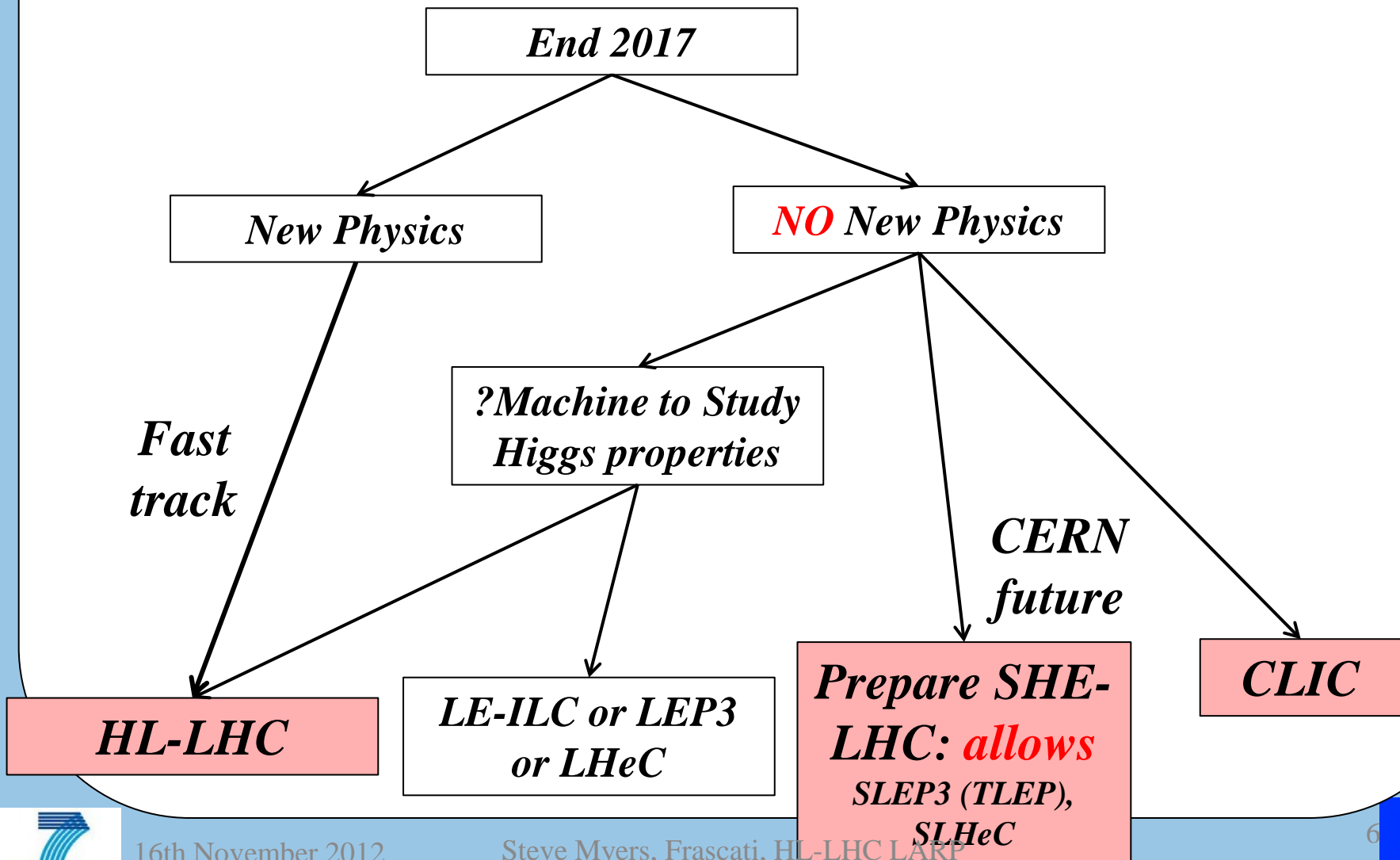
# LEP3 and TLEP

Two excellent examples of creativity and new thinking for the exploration of the Higgs-like boson and beyond.

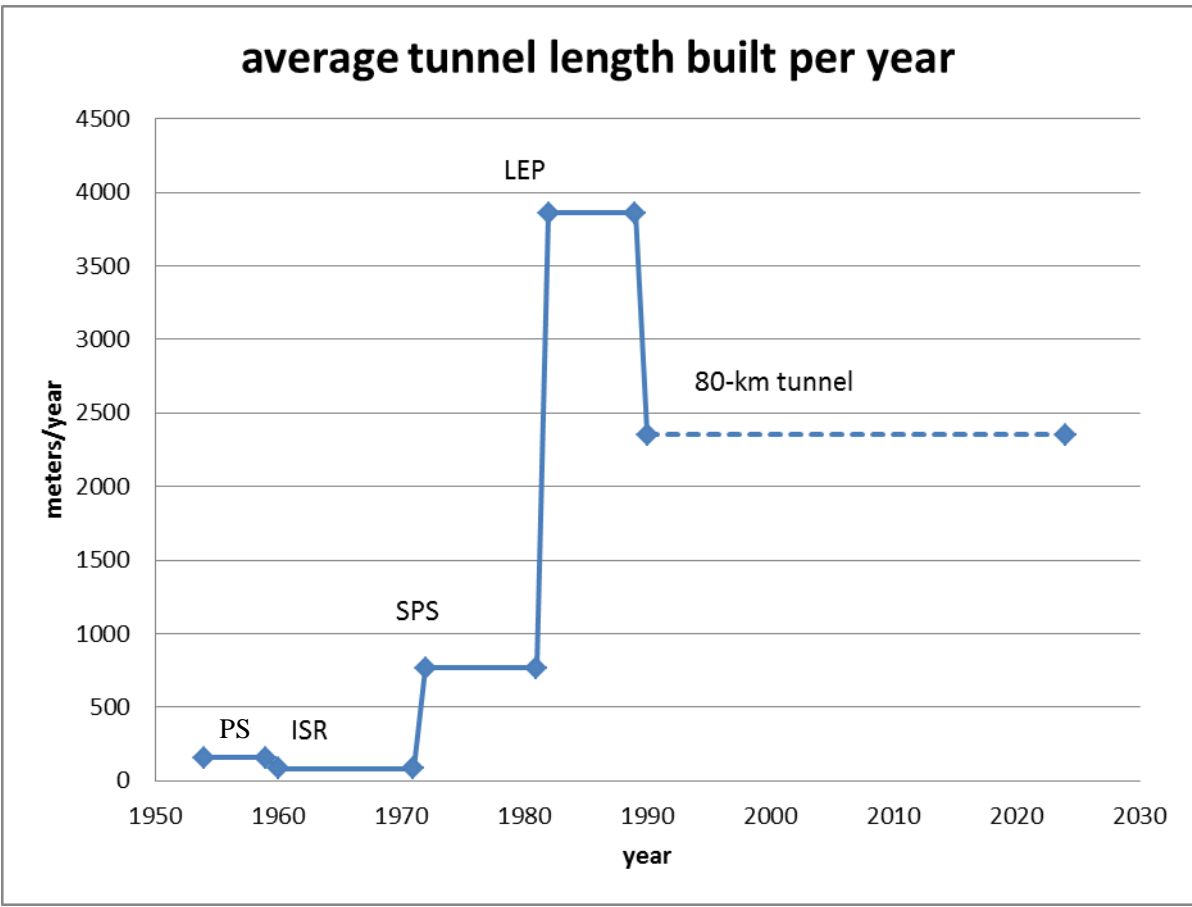
*...after the era of  $e^+e^-$  colliders had been declared finished with LEP!*

- LEP3: looks conceptually « simple » but challenging to integrate in the LHC infrastructure.
- TLEP: more expensive, but tunnel length would allow a vision for a bright and adaptative future programme for HEP, taking advantage of the present and foreseeable progress of accelerator technologies.

# *Food for thought: My Food NOT CERN*



# Civil engineering at CERN for energy-frontier accelerators and colliders



**Have a fruitful meeting**