

European Study Towards a Global TeV Linear Collider



Kick-Off Meeting
DESY, 1st November 2004

Topics covered

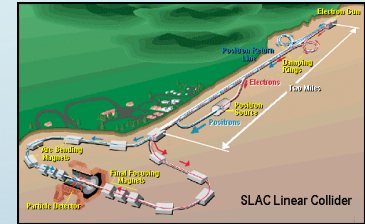
- Where are we now?
 - ILC
 - Role of EUROTeV
- Kick-Off Meeting
 - Purpose
 - Goals
- Timelines
 - next steps
 - funding
- Web pages



Convergence Process towards International Linear Collider Design...

Late 80ies

SLC as proof of principle
of a linear collider



...

March 2001

TESLA TDR

...

New initiatives: UK LC-ABD, CARE with JRAs
and ELAN

January 2003

ILC-TRC ranks aspects of LC designs

February 2003

Conditional approval for XFEL

January 2004

European Institutions join for EUROTeV

August 2004

World agrees on one technology for the ILC

November 2004

1st ILC Workshop @ KEK



Accelerated pace for the LC - EUROTeV in 2004 as an example

- Jan 04 Several European labs **decide to submit proposal** for Linear Collider Research
- 2.2.04 ESGARD encourages submission
- 5.2.04 First meeting with EU officials in Brussels
- 20.2.04 1st open meeting Daresbury Lab
- 4.3.04 Submission of EUROTeV proposal
- 28.5.04 Feedback from EU - Referees support proposal
- 28.7.04 EU ready for negotiations
- 13.9.04 2nd open meeting in Geneva
- 30.9.04 Submission of proposal for negotiation
- 14.10.04 Start of negotiations
- 1.11.04 **EUROTeV Kick-off meeting**

...and in the other regions

- ...
- Strong commitments from major US labs for the LC; likewise from Japan
- ...
- US-ILC Workshop - Mid October 2004
- Expression of Interest for the Superconducting Module & Test Facility (SMTF)
- 1st ILC Workshop @ KEK



EUROTeV is central to this effort in Europe

When we wrote the proposal

- “an additional goal [for EUROTeV] is to form the core of the European regional design group as part of the [Global Design] GDO...”

With TESLA, XFEL and JRA-SRF it may be more adequate to claim

- “...a significant contribution to the European regional design group as part of the [Global Design] GDO...”

The baby may have grown faster than we anticipated...



EU Framework Programme 6

The EU's Framework Programme for Research and Technological Development is a major tool to support the creation of the European Research Area - ERA.

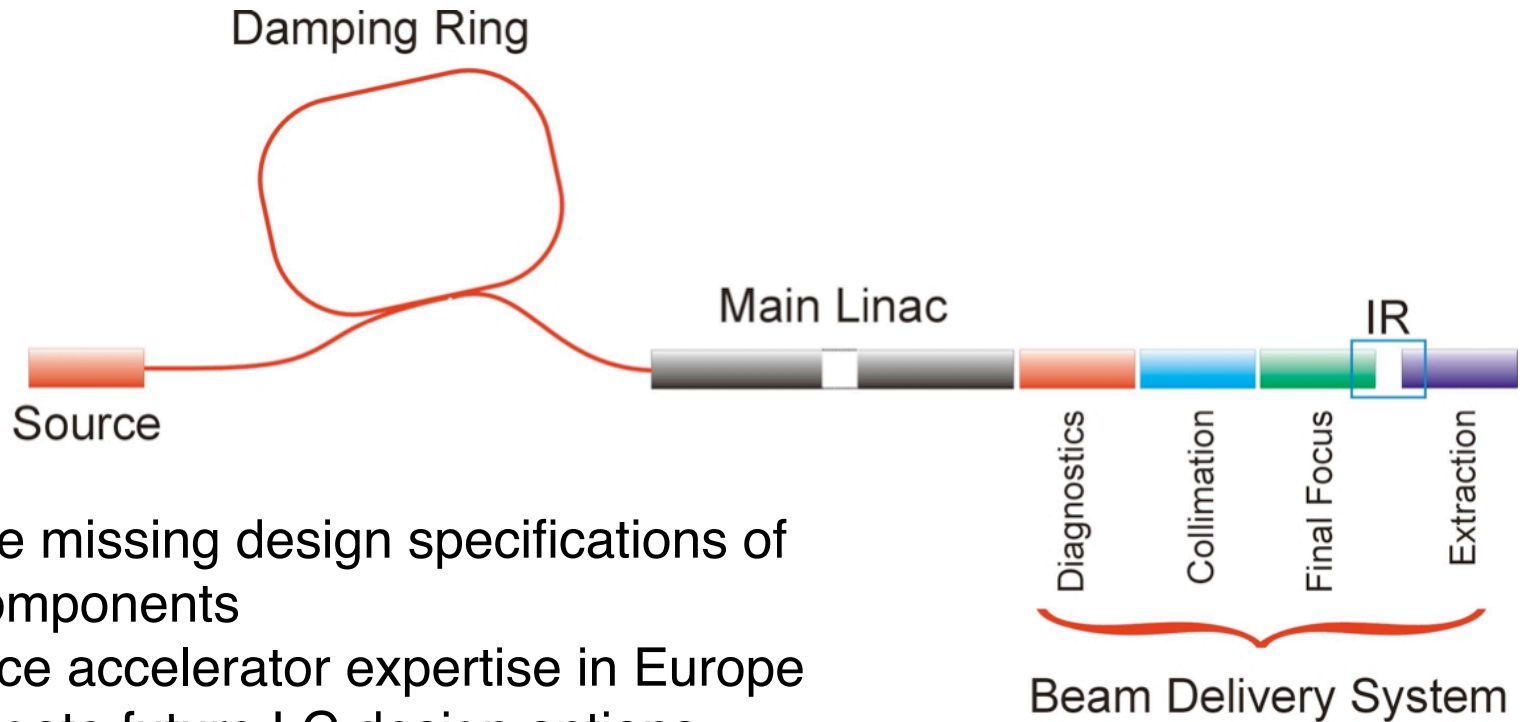


Calls for Infrastructure in Europe including Design Studies
3 calls with a total of 200 M€

- CARE ⇒ Joint Research Activity (JRA) and network ELAN
- EUROTeV ⇒ Design Study
- ...



EUROTeV Design Study



Goal:

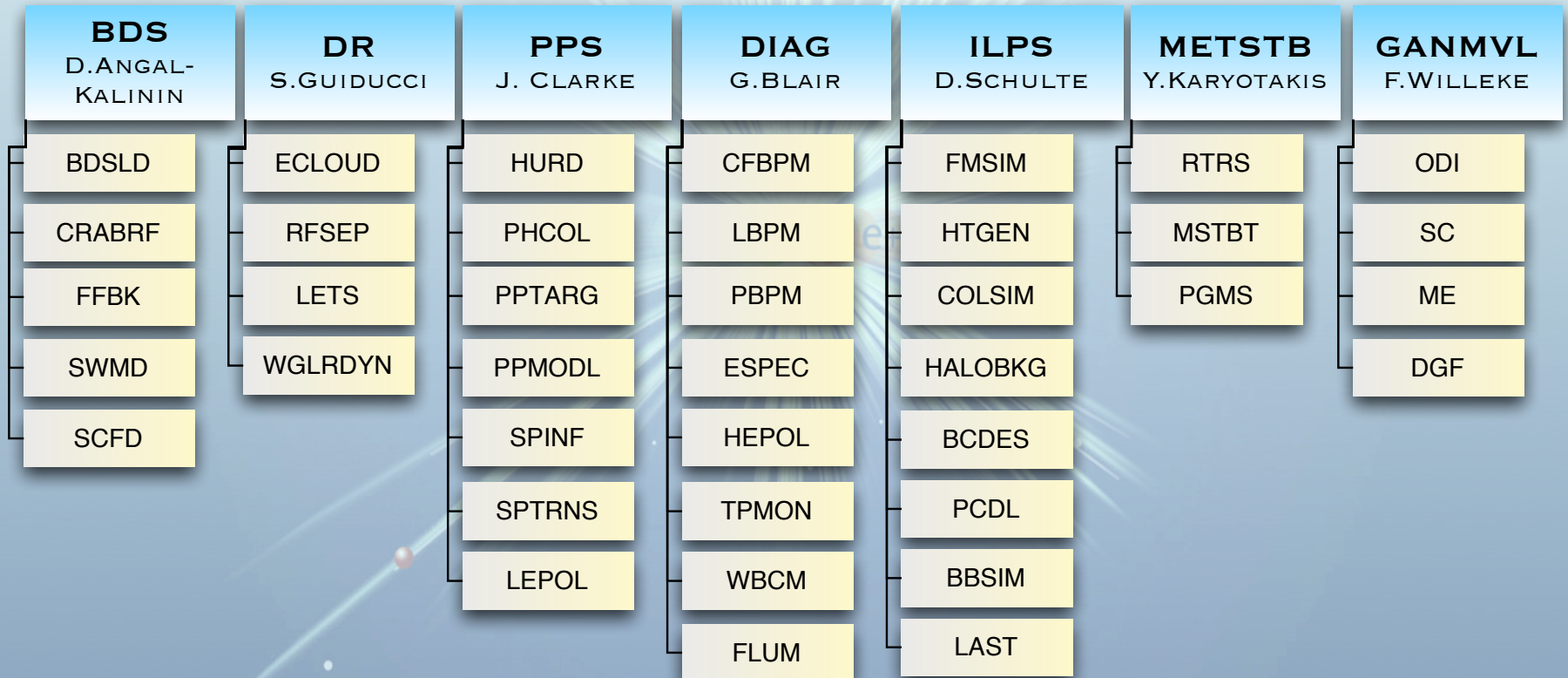
- provide missing design specifications of ILC components
- advance accelerator expertise in Europe
- investigate future LC design options



Subdivision of Work Packages

EUROTeV WORK PACKAGES & TASKS

(EXCEPT MNGMNT)



EUROTeV Work Packages & Institutes

Institute	WP1: MNGMNT	WP2: BDS	WP3: DR	WP4: PPS	WP5: DIAG	WP6: ILPS	WP7: METSTB	WP8: GANMVL
CCLRC	X	C	X	C			X	
CEA		X						
CERN	C	X	X		X	C		
DESY	C		X	X	X	X	X	C
ELETTRA								X
FHG								X
GSI								X
INFN-LNF	X		C					X
INFN-Mi								X
INFN-Ro2								X
IPPP				X				
LAL					X	X		
LAPP	X						C	
PSI						X		
QMUL		X				X		
RHUL	X				C	X		
TEMF,TUD		X						
UBER				X				
UCAM					X			
UCL					X			
ULANC		X						
ULIV				X				
UMA		X				X		
UMH								X
UNIUD								X
UOXF.DL					X		X	
UU					X	X		

BDS:

Beam delivery

DR:

Damping rings

PPS:

Polarised positron source

DIAG:

Diagnostics

ILPS:

Luminosity Performance

METSTB:

Metrology & stabilisation

GANMVL:

Accelerator network

Details this
afternoon



EUROTeV in numbers

Budget:

27.6 M€ total

9.0 M€ request

Person power:

328 person years total

100 person years request

- WP coordinators have worked hard to fulfil the EU request of adjusting budget without (too much) affecting scope
- External advisors have given valuable input

EUROTeV Research

- Programme has been conceived to be largely independent of technology choice
- Can we optimise now that we know the decision?
 - Programme has been partially adjusted from proposal to the document submitted for the EU negotiations
 - Some programmes foresee an initial period in which the detailed scope of the research will be defined
 - We are entitled to amend the contracts with the EU should the need arise to adjust the programme (within the limits of the research topics)
- Goal is to contribute
 - significantly
 - decisivelytowards the design of the ILC

Global Feedback from Brussels - EU

European Community is

- very supportive of EUROTeV
 - acknowledges the research goals
- supporting use of SCRF technology elsewhere
 - EUROFEL - for the XFEL
 - CARE JRA-SRF
- interested in the world developments towards ILC
 - and sees a unique chance for Europe to contribute at the forefront of science
- aware of the required international political process
 - comparing ILC to ITER as a project
 - paying attention to decision finding process for ITER site
 - curious to see ILC management structures take shape
 - site selection for ILC...

Specific Feedback from Brussels - EU

Changes to presentation in proposal on

- Objectives
 - Better global definition
 - need to be quantifiable
 - Better specific definition
 - need to be verifiable
- Deliverables
 - need to be measurable
 - Product
 - Prototype
 - Report
 - Organisation of a Meeting
- Milestones
 - a significant point in the project
 - is not a deliverable

Specific Feedback from Brussels - cont'd

(Optimistic) timelines...

- Start of EUROTeV 1.1.2005
- Signature of Contracts
 - mid February
 - first release of EU funding by end of February



e- e+

Steps to be completed

- Amendments to proposal
 - For formal decision in the EU
- Contracts
 - Drafts in January
 - To be signed by all institutes
(Please contact your officials soon so that the step proceeds smoothly).
- Consortium Agreement
 - Our guiding principle has to be **common sense** and the strive for the large common goal as in all big experimental collaborations
 - We will have to regulate a few conditions e.g. where deliverables are due and assumed responsibility applies to other partners as well

Communication in EUROTTeV

- Regular meetings
 - particularly in Working Groups
 - Phone meetings
- Contact to international partners
- Web pages are of prime importance
 - Have started to implement Web pages
 - based on ZOPE  e+
 - application server
 - remote editing facilitated

www.eurotev.org is online



EUROTeV: European Design Study Towards a Global TeV Linear Collider

EUROTeV Homepage	General Information	Work Packages	Participating Institutions	Calendar	Links	Reports & Presentations
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EUROTeV > EUROTeV Homepage

[EUROTeV Homepage](#)
Website Hosted by DESY

EUROTeV



Mission

27 European institutes join forces on a Design Study for a Linear Collider in the TeV energy range. After the recommendation of the ITRP for the superconducting technology a worldwide effort has been started to realise the **International Linear Collider (ILC)** as a truly worldwide project under the guidance of the Global Design Initiative (GDI).

EUROTeV addresses some of the high ranking issues identified by the Technical Review Committee with the aim to deliver significant input to the Conceptual Design Report (CDR) and the Technical Design Report (TDR) of the ILC due to publication by the GDI in 2005 and 2007 respectively. EUROTeV will serve in this respect as a major branch of the European

External Links

- [1st ILC Workshop](#)
- [ILC-Asia](#)
- [ILC@DESY](#)
Coming Soon!
- [ILC@FNAL](#)
- [ILC@SLAC](#)
- [ILC Communication](#)

Coordinators will contribute to maintaining their pages

The screenshot displays the ZMS (ZOOPE-based content management system) interface for EUROTeV. The browser window shows the URL <http://www.eurotev.org/manage>. The interface includes a sidebar with a file tree, a main content area with a 'Properties WWW-site' panel, and a list of content items on the right.

File Tree (Left Sidebar):

- EUROTeV
- EUROTeV Homepage
- General Information
- Work Packages
- Participating Institutions
- Calendar
- Links
- Reports & Presentations
- Upload

Main Content Area:

ZMS ZOOPE-based content management system for science, technology and medicine 2.0 build#116m | WWW-site : EUROTeV

Deutsches Elektronen-Synchrotron
in der Helmholtz-Gemeinschaft

EUROTeV

Properties WWW-site

- Add to WWW-site -----
- Edit ContentLinks
----- Select Action -----
- Edit Linkcollection
----- Select Action -----
- Edit Text
----- Select Action -----
- Choose Folder
----- Modifications -----
- Choose Folder
----- Select Action -----
- Choose Folder
----- Select Action -----
- Choose Folder
----- Select Action -----

Content List (Right Panel):

Content Item	Author	Date	Time	Objects
EUROTeV: European Design Study Towards a Global TeV Linear Collider	karsten	04/10/29	18:16:52	11 Objects
1st ILC Workshop	rakillough	04/10/12	14:39:13	25Bytes
ILC-Asia	karsten	04/10/29	11:10:34	
ILC@DESY Coming Soon!				
ILC@FNAL				
ILC@SLAC				
ILC Communication				
EUROTeV Homepage	karsten	04/10/29	10:42:06	26Bytes
General Information	elsen	04/10/29	09:12:19	3 Objects
Work Packages	rakillough	04/09/15	15:55:14	7 Objects
Participating Institutions	rakillough	04/10/12	14:40:29	11 Objects
	karsten	04/10/29	18:02:28	1 Objects



old webpages...

Old webpages

<http://www-flc.desy.de/eurotev/>

- will remain active for a while
- content will be transferred to new domain
- and access will be automatically redirected

For www.eurotev.org please give feedback on

- design
- functionality
- further requirements

Programme for today

- Worldwide Preparation for the ILC -
Talk by M Ross
- Presentation of detailed EUROTeV research
programme
 - Tour of Work Packages this afternoon
 - Management of EUROTeV
- Preparation of the ILC contribution

Conclusion

We have been extremely lucky up to now and as a consequence successful

- EUROTeV
 - Design Study call came at the right time
 - Many institutes had ongoing LC research programmes and were eager to put it on a larger scale
 - The world united behind a technology choice

So let's get started with the real work and deliver – the proof of the pudding is in the eating!