



COMENIUS SCHOOLPARTNERSHIPS

THE NEVER ENDING STORY



European CNC-Network „Train for EUROPE“





CNC

- ★ Computerized Numerical Control
- ★ All kinds of machine tools (lathing/milling/drilling) can be controlled by CNC
- ★ CNC technology makes manufacturing of workpieces of high accuracy and precision possible



THE INITIAL IDEA - A RESULT OF A PREPARATORY MEETING

- ★ Where? *BBS TGHS Bad Kreuznach*
- ★ When? *Tue, 07th to Mon, 13th
of November 2006*
- ★ *Workshop I* Introduction
- ★ *Workshop II* Collecting Ideas
- ★ *Workshop III* Defining our common goal
- ★ *Workshop IV* Organizing Tasks
- ★ *Workshop V* Application





IMPRESSIONS PREPARATORY MEETING



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on the way to
Europe



IMPRESSIONS PREPARATORY MEETING





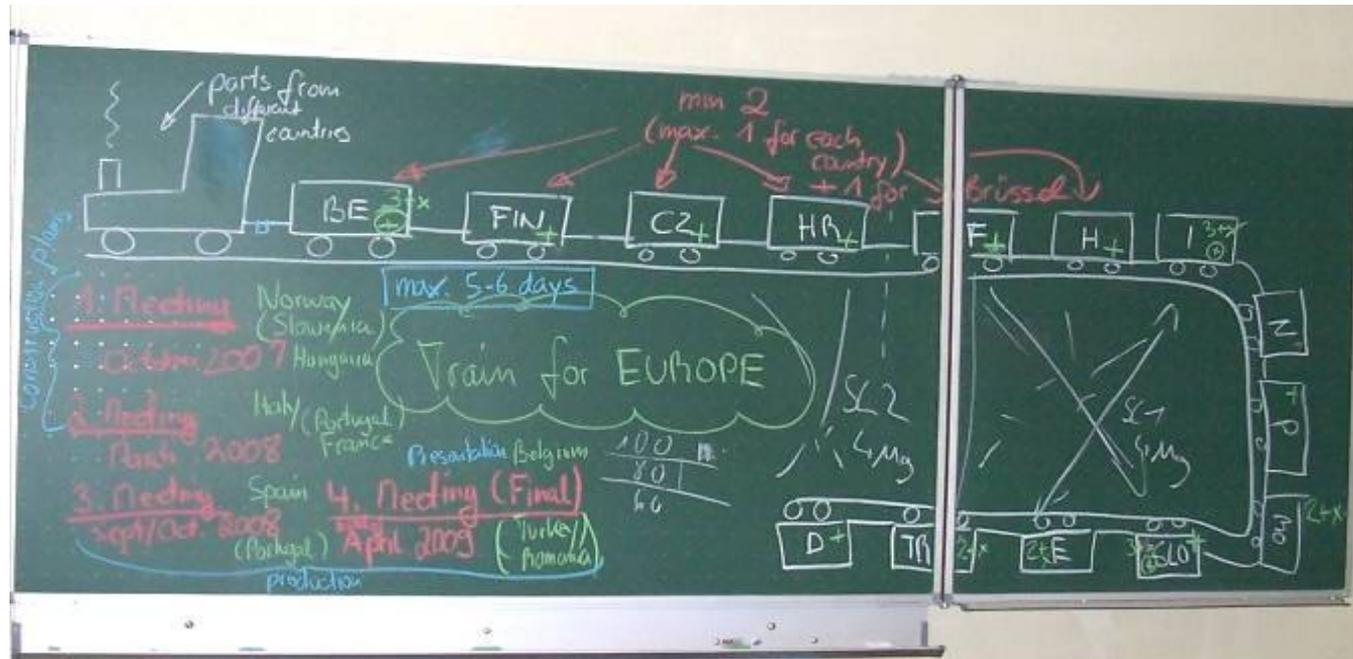
IMPRESSIONS PREPARATORY MEETING



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A VISION BECAME REALITY



Blackboard 10/11/2006
First ideas as a result of our Preparatory Visit



30 PARTNER SCHOOL INTERESTED



As many European countries as possible should be involved in the project.

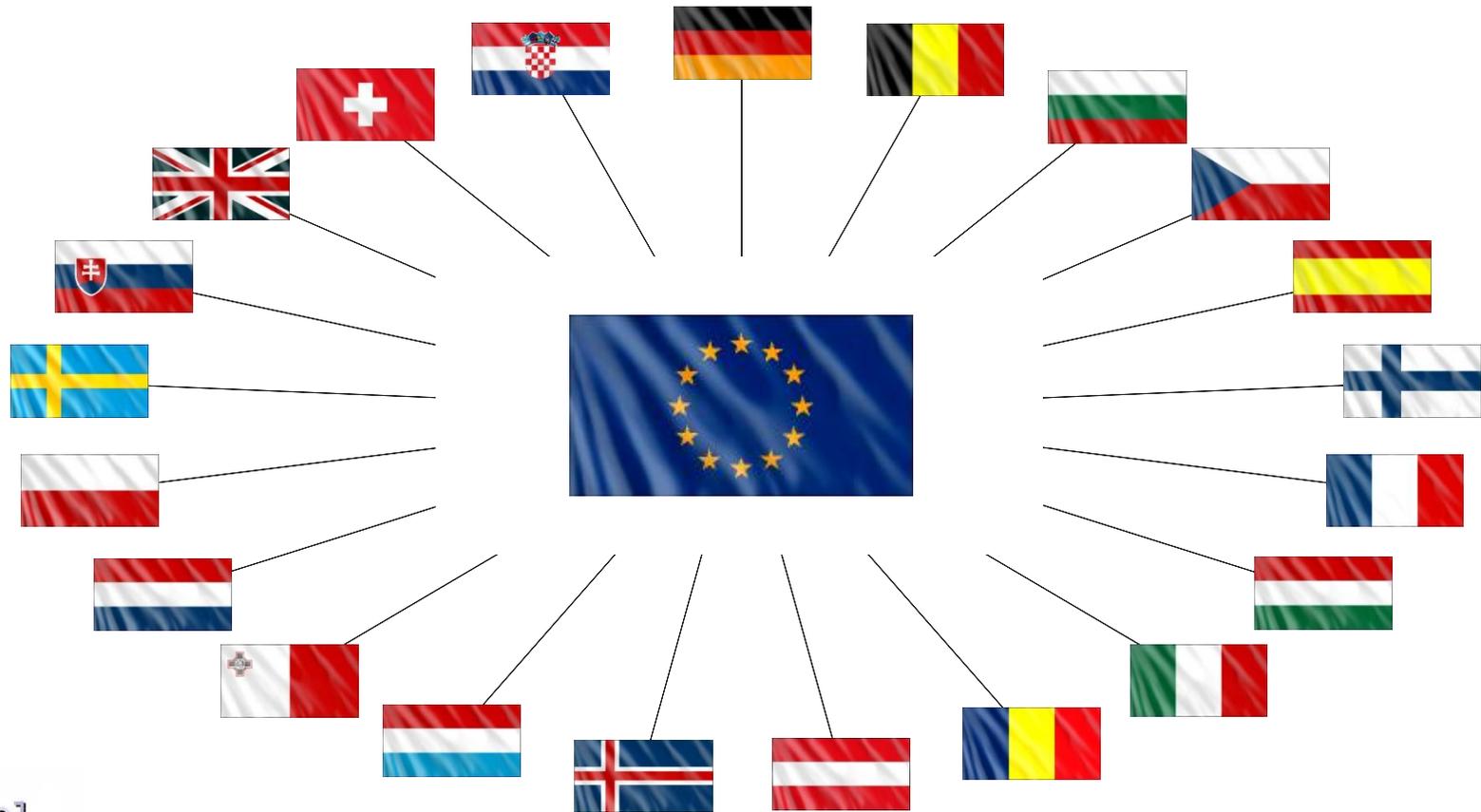


24 PARTNER SCHOOLS ACCEPTED



As many European countries as possible should be involved in the project.

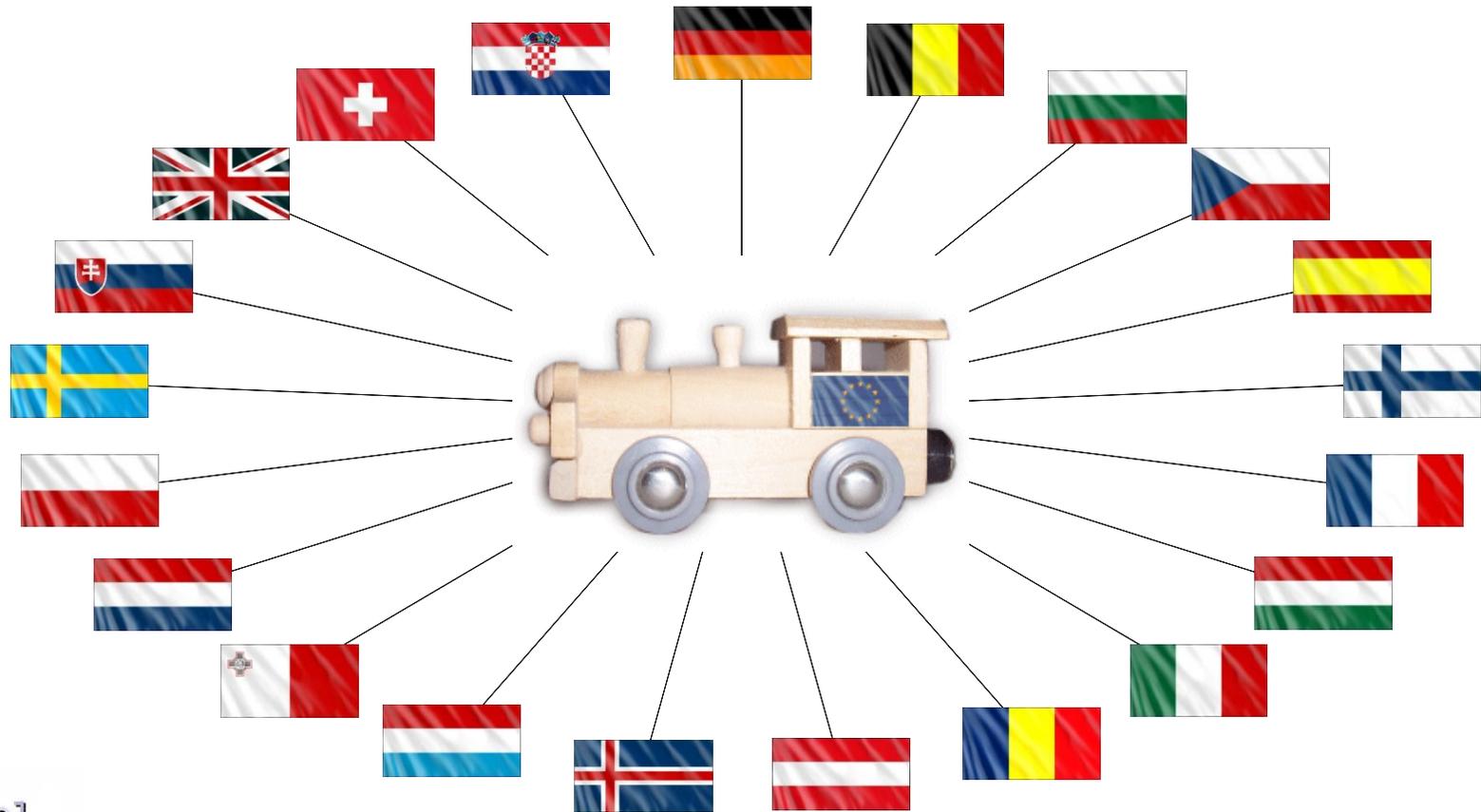
24 PARTNER SCHOOLS – EUROPE ALMOST COMPLETE



As many European countries as possible should be involved in the project.



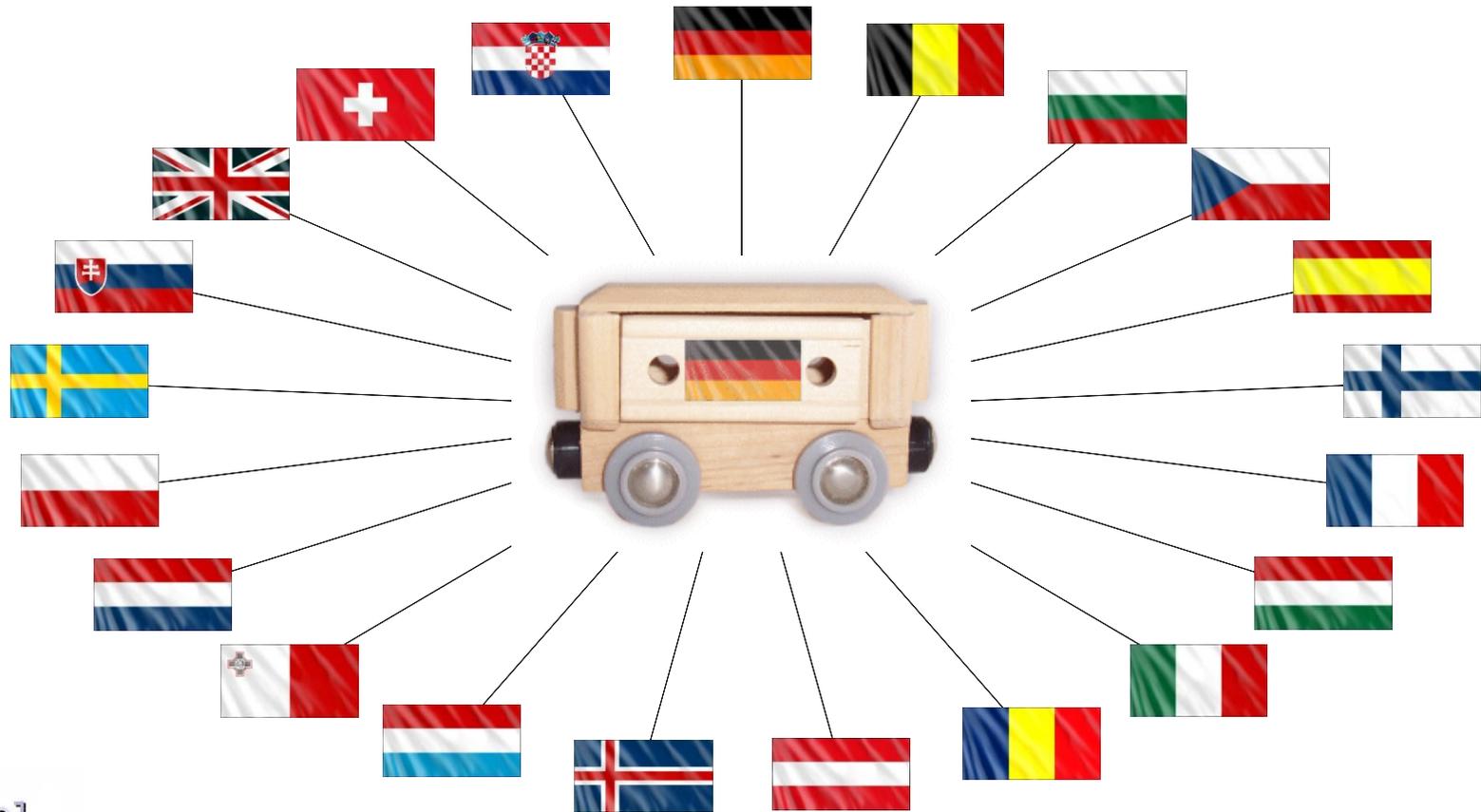
COMMON PLANNING & ASSEMBLING – WORK-SHARING PARTS PRODUCTION



Each partner school will provide several parts of the locomotive.



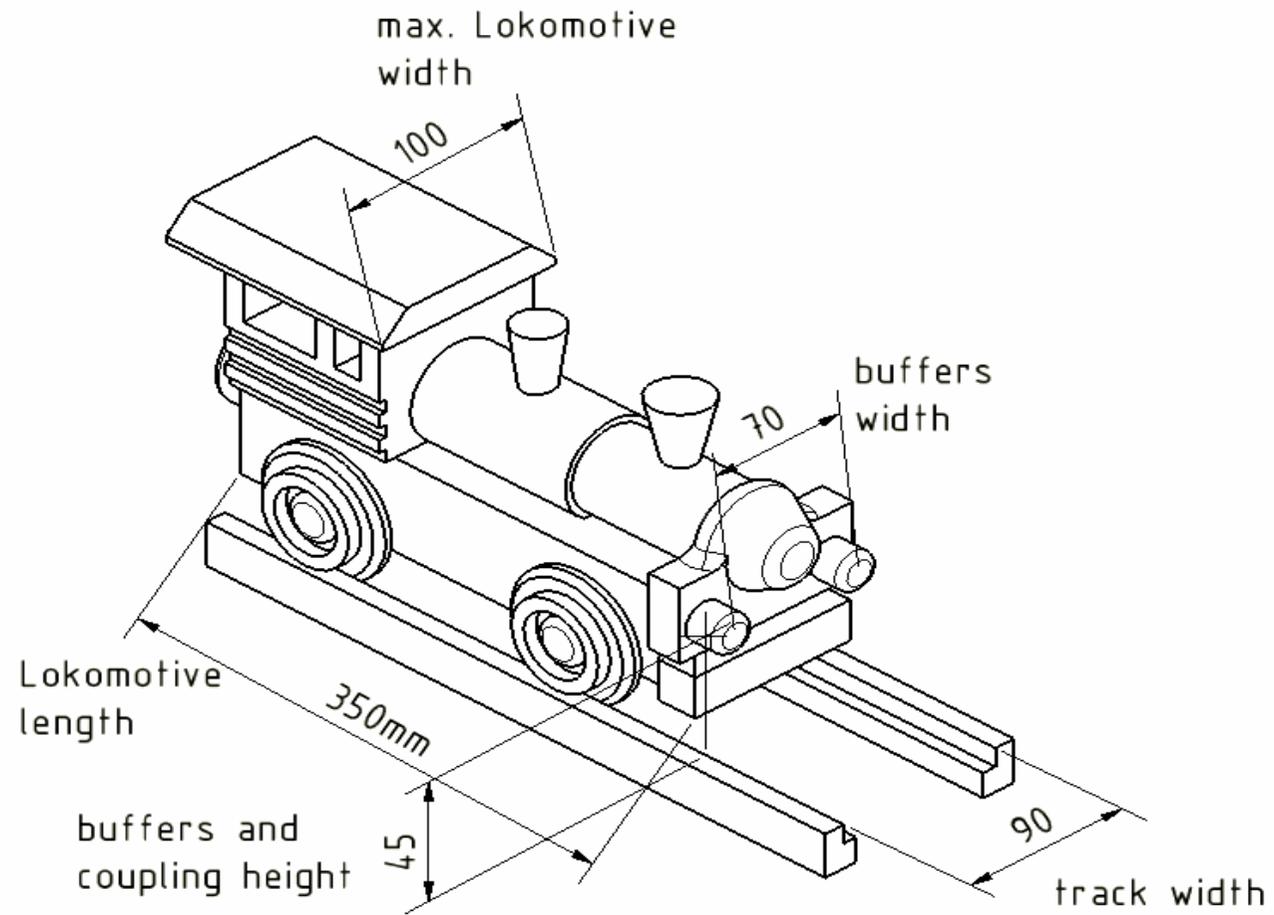
WAGONS ARE INDIVIDUALLY DESIGNED BY PARTNER SCHOOLS



Wagons will show characteristics representing the different countries.

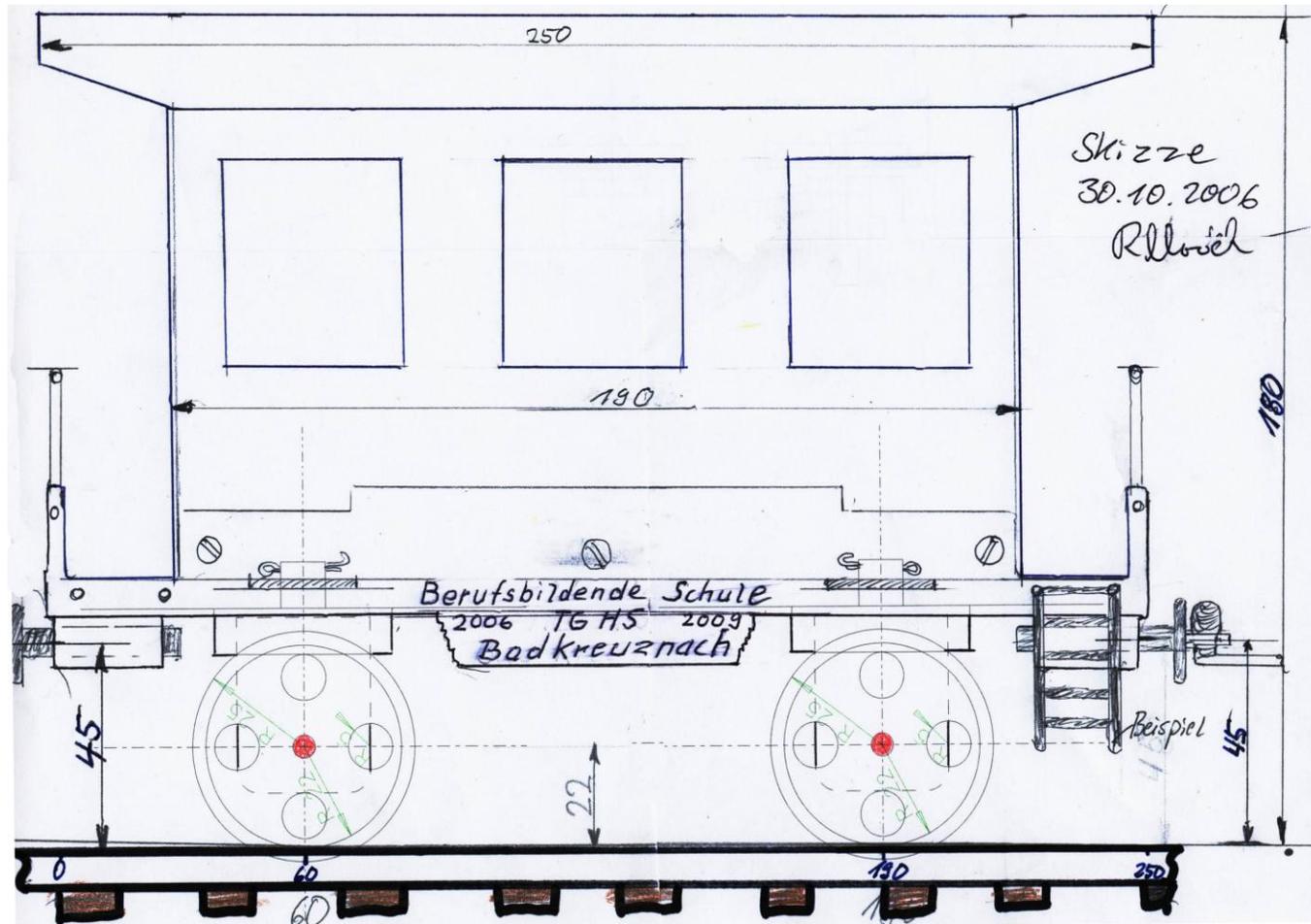


DIMENSIONS LOCOMOTIVE





FIRST SKETCHES DRAWN...





PROJECT MEETINGS

★ **07-11 until 13-11-2006**

- ★ BBS TGHS Bad Kreuznach
Bad Kreuznach, GERMANY



★ **04-12 until 10-12-2007**

- ★ Lycée Rascol d'Albi,
Albi, FRANCE



★ **15-04 until 21-04-2008**

- ★ Istituto di Istruzione Superiore "C. Olivetti"
Ivrea, ITALY



★ **21-10 until 27-10-2008**

- ★ Escoles Professionals Salesians de Sarria
Barcelona, SPAIN



★ **20-04 until 28-04-2009**

- ★ BBS TGHS Bad Kreuznach
Bad Kreuznach, GERMANY
- ★ Sint-Jozefinstituut KOGKA 4
Geel, BELGIUM



FINAL WORKING LINES ASSIGNMENT

Working Line A (Locomotives)

Locomotive 1
Electric

Locomotive 2
Electric

Locomotive 3
Steam

Task Force Line

Coupling

Wheels, Tracks

Moulding

Final Presentation

Media Archive

Evaluation

Communication

Internet
(Activities, Results)

Working Line C (General Tasks)

Technical
Dictionary

Comparision
Educational Systems

Teaching Material

Documentary
Video, Photo, Booklet

QM
Planning Process





EUROPE – A VIVID EXPERIENCE



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COMMON GOALS THAT BIND TOGETHER



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INTENSIVE WORKING IN GROUPS



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UNLIMITED EUROPEAN COMMUNICATION

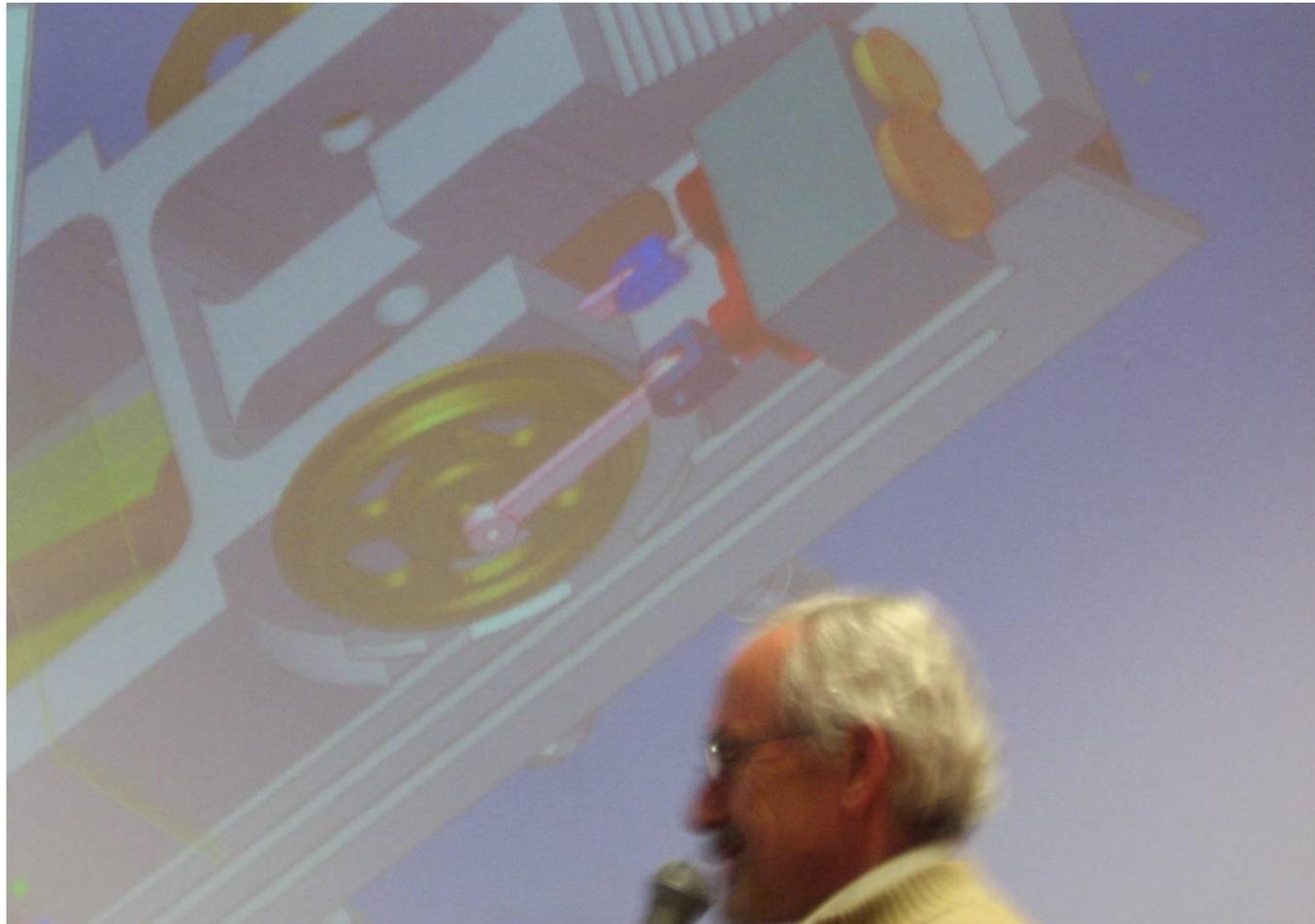


SUCCESSFUL EUROPEAN TEAMWORK



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GOING INTO DETAIL – PRESENTING TECHNICAL SOLUTIONS



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SELECTING AND VOTING PROCESSES WITH ALL PARTICIPANTS



COMMON IDEAS – COMMONLY REALIZED...



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... RECEIVING INPUT BY INDUSTRY...



... TECHNOLOGICALLY SUPPORTED BY ASSOCIATED PARTNERS



STUDENTS MOUNTING LOCOMOTIVE



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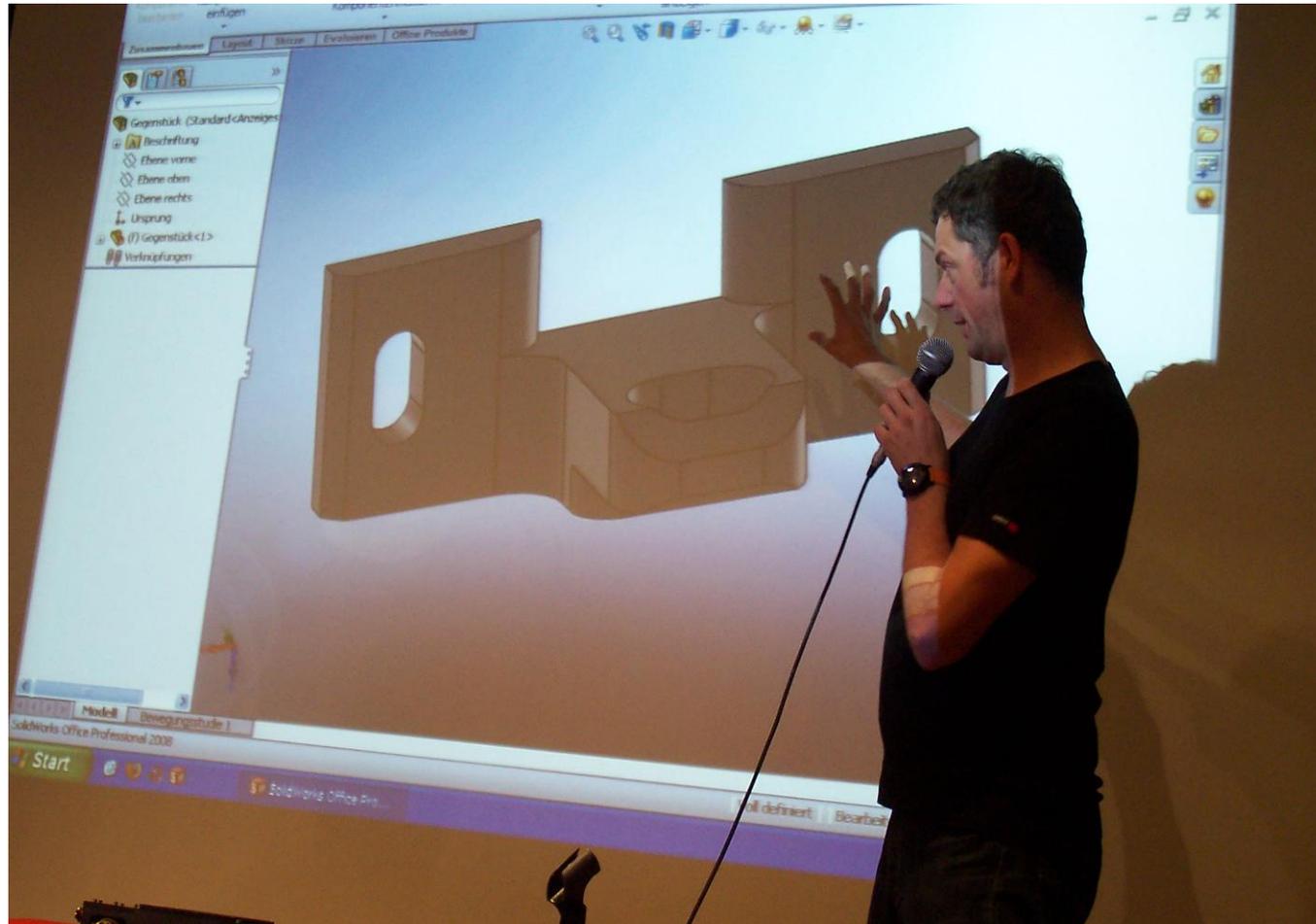


TRACKS: ONE UNIT – ONE EUROPE



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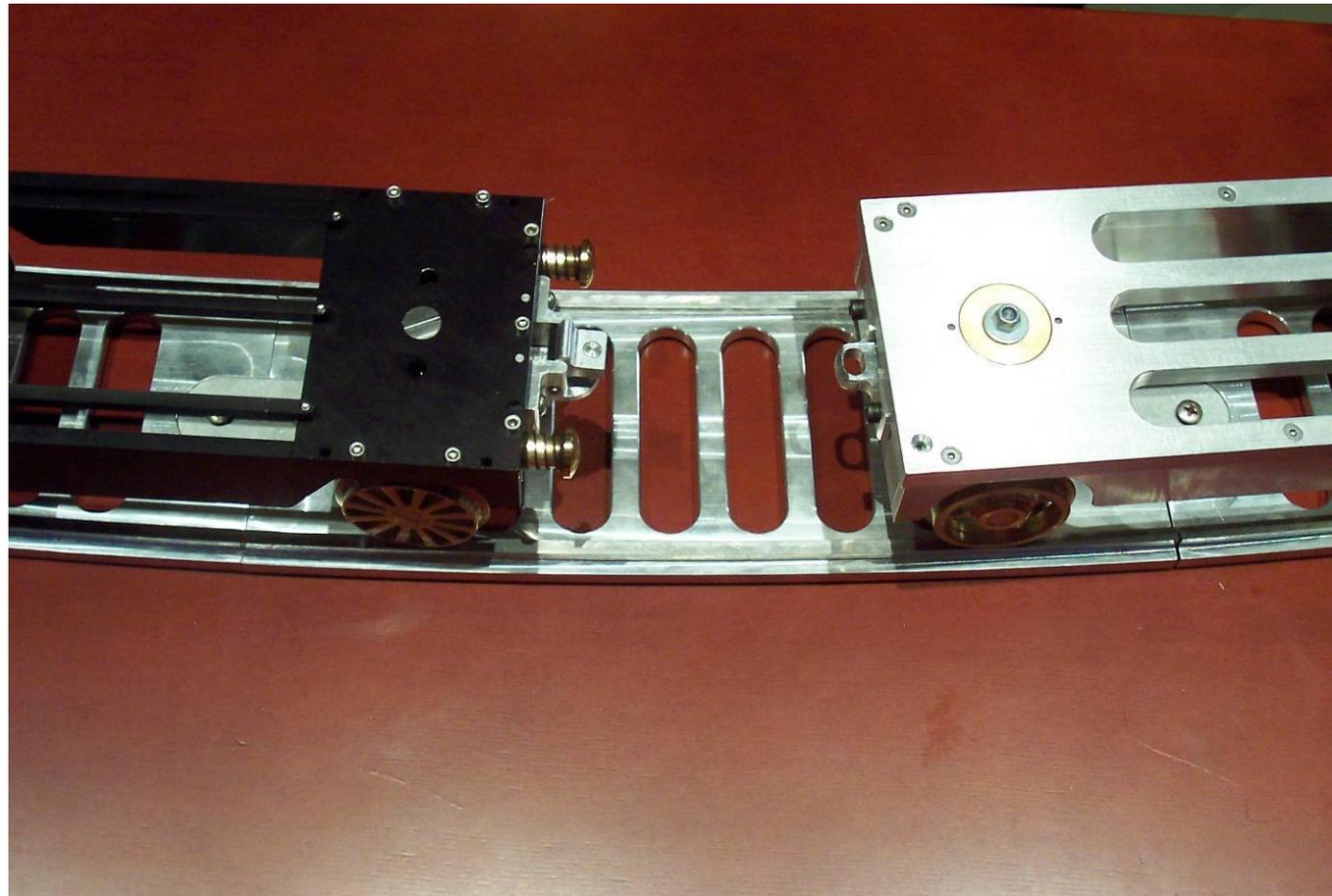
PRESENTING NEW IDEAS FOR THE COUPLING UNIT



MOUNTING THE PROTOTYPE OF THE NEW COUPLING UNIT

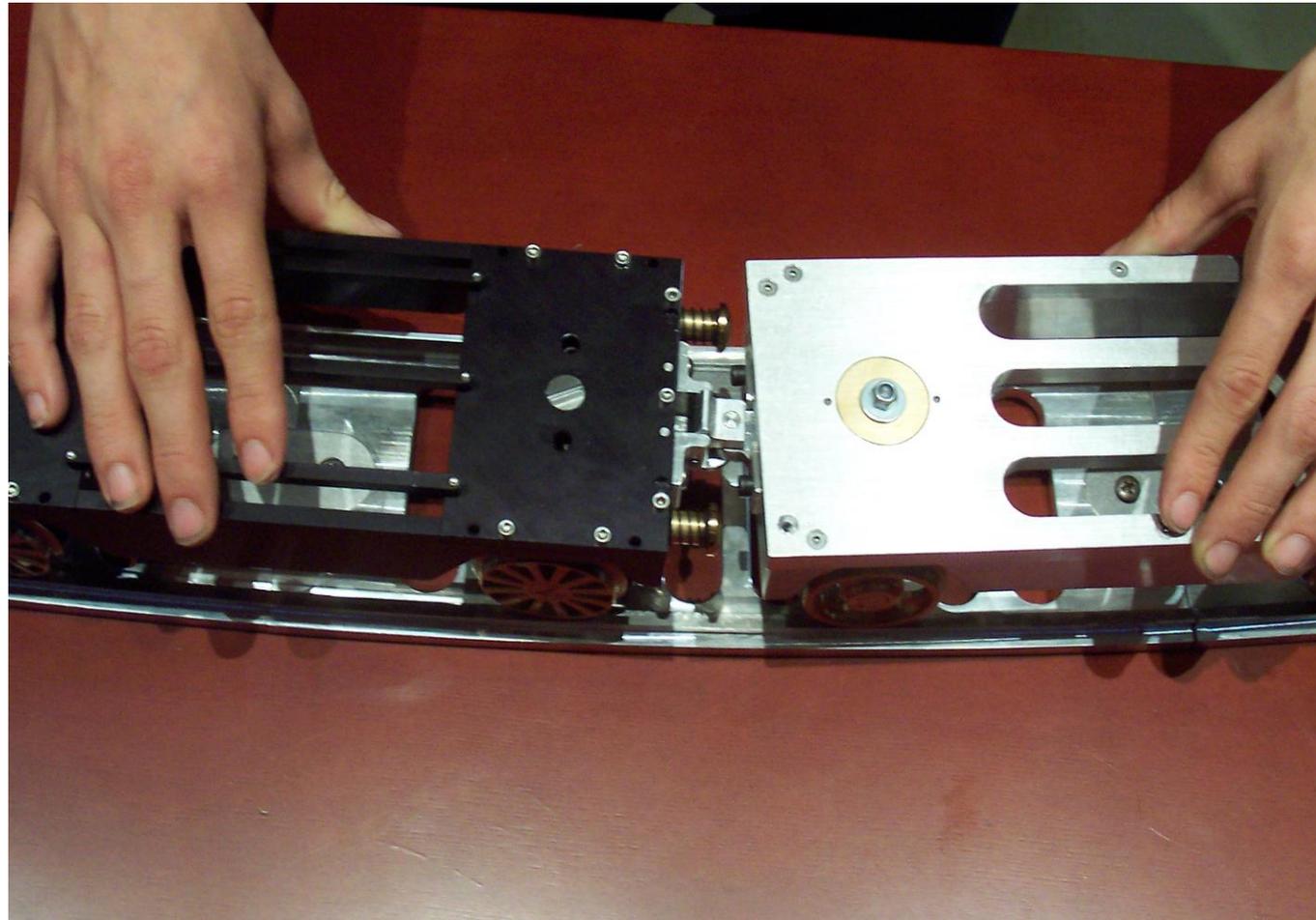


THE MOST THRILLING MOMENT...



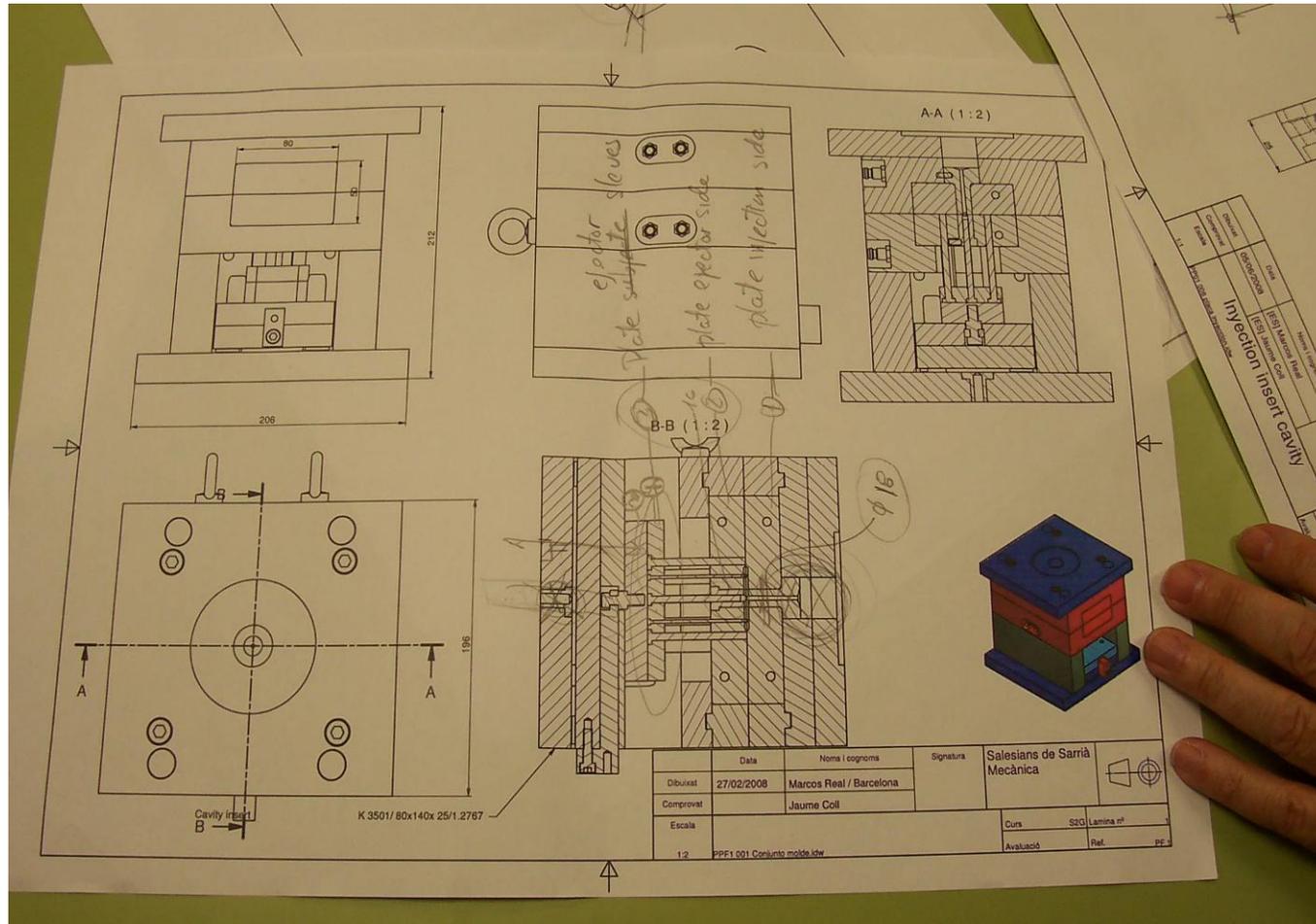


TEST PASSED - FUNCTION GUARANTEED





DETAILS OF THE INJECTION MOULD



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ASSOCIATED PARTNER



DELPHI

PHILIPS



SIEMENS



DMG



ALSTOM

CULTURE MEETS CULINARY HIGHLIGHTS



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... FIRST TIME THE TRAIN IS MOVING



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ON THE WAY TO BRUSSELS – STOP IN TRIER / GERMANY



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FINAL PRESENTATION 2009 YEHUDI MENUHIN HALL (EP BRUSSELS)





A FURTHER HIGHLIGHT



Rheinland-Pfalz

MINISTERIUM FÜR BILDUNG,
WISSENSCHAFT, JUGEND
UND KULTUR

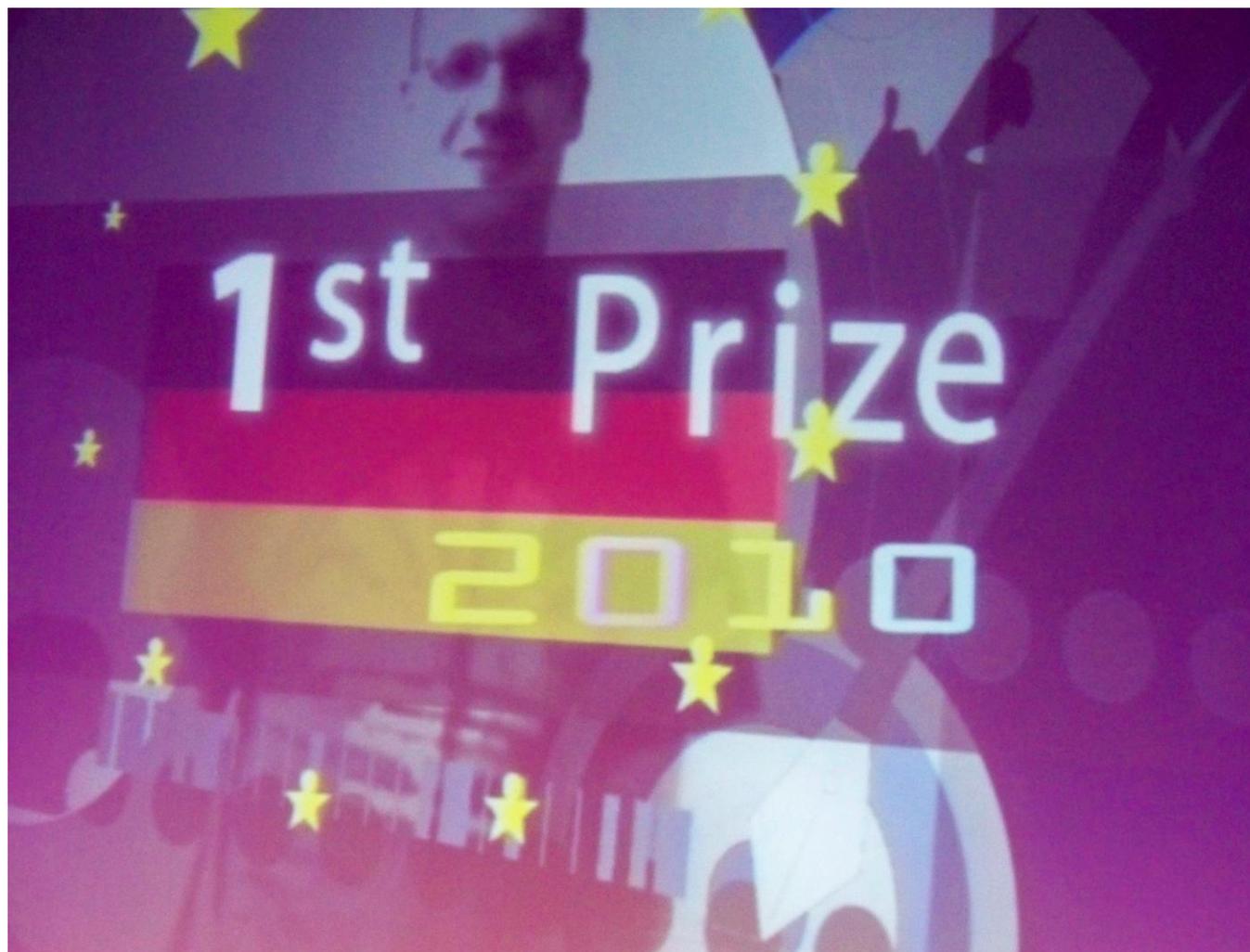
EUROPEAN CHARLEMAGNE YOUTH PRIZE 2010



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EUROPEAN CHARLEMAGNE YOUTH PRIZE 2010



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EUROPEAN CHARLEMAGNE YOUTH PRIZE 2010



2010



Stiftung
Internationaler
Karlspreis
zu Aachen

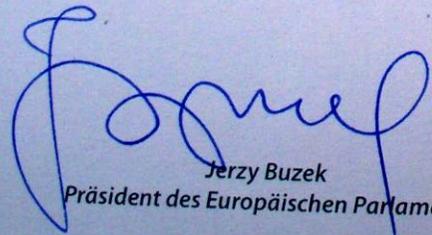
Wettbewerb Europäischer Karlspreis für die Jugend

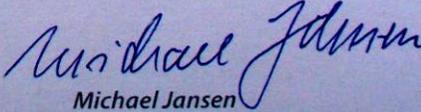


der Erste Preis wird vergeben an

Europäisches CNC-Netzwerk - Zug für EUROPA; Deutschland

Aachen, 11. Mai 2010


Jerzy Buzek
Präsident des Europäischen Parlaments


Michael Jansen
Vorsitzender der Karlspreisstiftung



EUROPEAN CHARLEMAGNE YOUTH PRIZE 2010



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EUROPEAN CHARLEMAGNE YOUTH PRIZE 2010



EUROPEAN CHARLEMAGNE YOUTH PRIZE 2010





NEXT PROJECT IDEA: MOULDING FOR EUROPE



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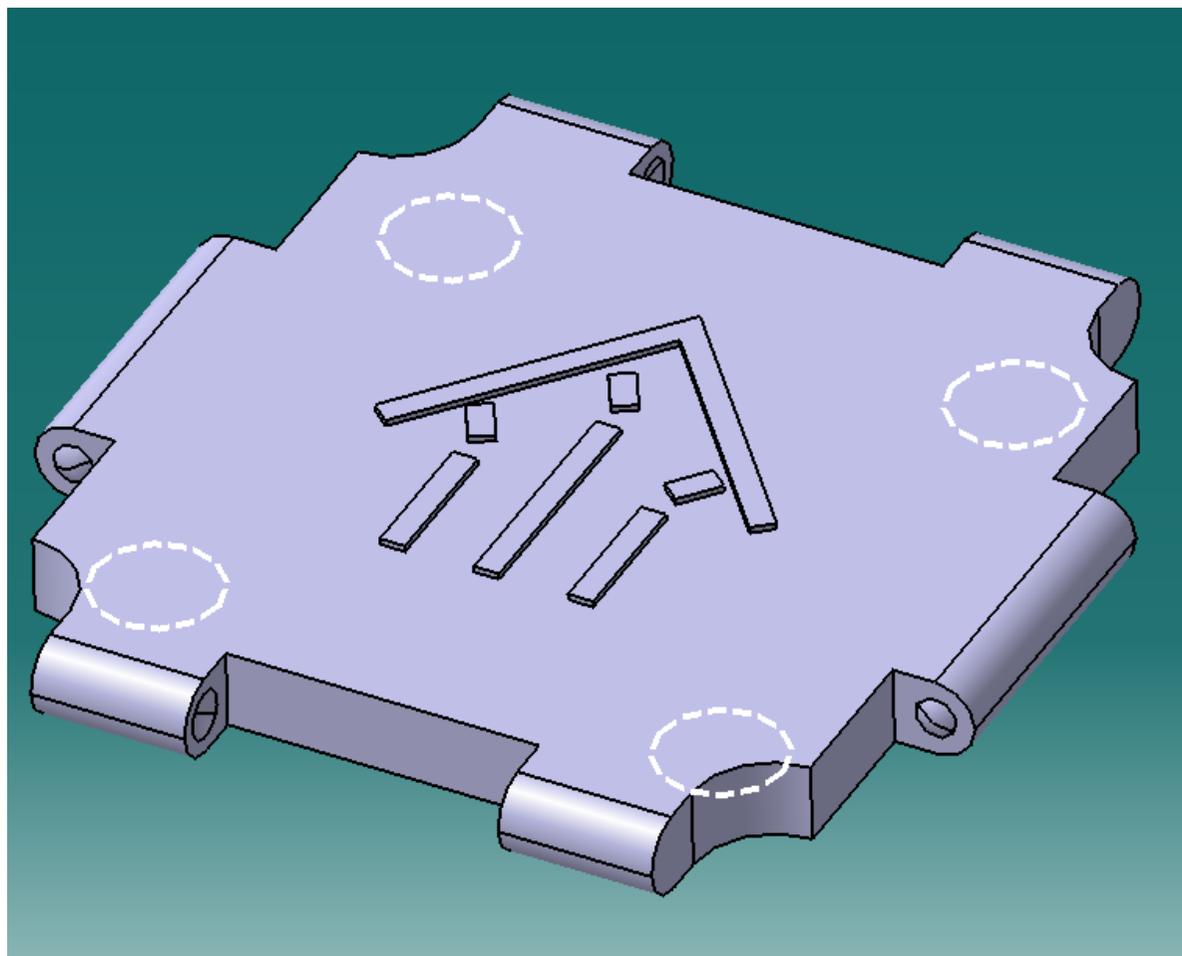


A VISUALISATION IN WOOD



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ONE SIDE OF THE CUBE SHOWING IN A 3D-VISUALISATION



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THE „EUROPEAN KEY FOB CUBE“



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NEXT STEP OF THE STORY: TRAIN FOR EUROPE - RELOADED

- ★ Preparatory Meeting in Hungary 12-2009
- ★ Application (139 pages) was successful
- ★ Since August 2011 the new train adventure was on the tracks again for two years
- ★ „Famous Technical Invention“ as a first idea for a common wagon motto
- ★ Common undercarriage for wagons - individual upper part with clicking system
- ★ Integration of a „European Electronic Map“
- ★ Including many supporting tasks





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YOU'RE WELCOME!



**European CNC-Network
„Train for EUROPE“**

