



COMENIUS SCHOOLPARTNERSHIPS

MEETING DETAILS & PROJECT UPDATE



European CNC-Network „Train for EUROPE - RELOADED“





WELCOME

- ★ We are very pleased to welcome you!
- ★ More than 120 participants from 24 vocational schools out of 23 countries all over Europe are meeting this week in St. Pölten, Austria
- ★ We are financed by the EU and supported by associated partners and politicians
- ★ We expect lots of exciting tasks, loads of work, excitement and of course – much fun
- ★ Looking forward to having a successful project work and great time here in St. Pölten, Austria





SPECIAL THANKS TO THE GREAT ORGANISATION TEAM IN ST. PÖLTEN

- ★ for hosting the Train Family
- ★ for all the preparatory organisation
- ★ for all the technical and personal support
- ★ for organising all the visits and tours
- ★ for offering cultural and culinary highlights
- ★ for all the enthusiasm and energy
- ★ for all the idealism and power



**Everything is done
to have a perfect meeting!**

PROJECT MINUTES



*Centrum Kształcenia Ustawicznego im.
St. Staszica w Koszalinie*
Koszalin, Poland

Colegiul Tehnic de Transporturi
Iasi, Romania



Stredná odborná škola technická
Bratislava, Slovakia

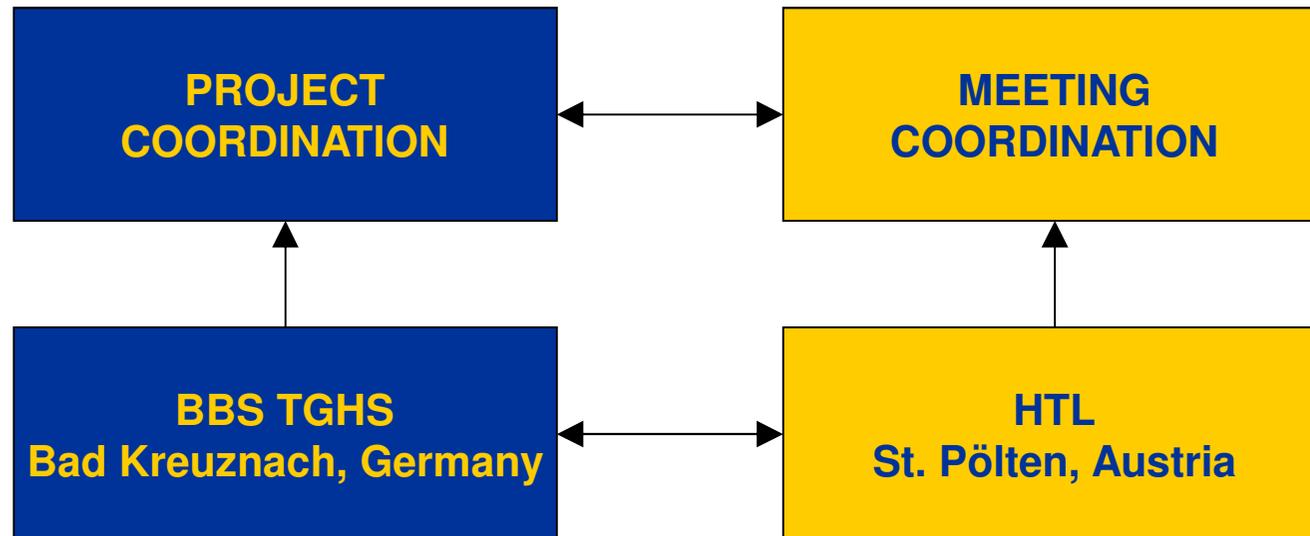


EUROPE – A MULTILINGUAL CONTINENT





COORDINATION





COORDINATION PHILOSOPHY

- ★ Not a project driven by the coordinator, but a project driven by all involved partners.
- ★ Not a project with one responsible boss, but a project with lots of responsible persons.
- ★ Not a project only for teachers, but especially a project for and from students.
- ★ Not a relaxed holiday project, but a project with lots of work load and fun.
- ★ Not a project for “Rambos”, but a project meant to improve team spirit.





WORKLINES

WORKLINE A
Locomotive

WORKLINE E
The last mile

WORKLINE C
European Electronic Map

WORKLINE D
Supporting Tasks



WORKLINES OF THE FIFTH MEETING IN AUSTRIA

WORK GROUP MINUTES			
WORKLINE A LOCOMOTIVES	WORKLINE C EUROPEAN ELECTRONIC MAP	WORKLINE D SUPPORTING TASKS	WORKLINE E THE LAST MILE
<u>LOCOMOTIVE 1</u> CH - IS - NL - PL - RO - SE	<u>SUPERVISORS</u> AT-FUL - DK - FI - HR - IT - LU	<u>ONLINE EVALUATION TOOL</u>	<u>COMMON UNDERCARRIAGE ASSISTANT</u> CH - DK - HDH - PL
<u>LOCOMOTIVE 2</u> AT STP - DE - HU - IE - LT - PT - SI	<u>PANEL</u> AT-STP - CH - DE - HDH - IS - PT - SI	<u>PHOTO/VIDEO COLLECTORS</u>	<u>PUBLIC RELATIONS</u> NL - NO - TK
<u>LOCOMOTIVE 3</u> AT FUL - DK - FI - HR - IT - LU	<u>DESK</u> IE - SE - SK - TR	<u>PHOTO GALLERY</u>	<u>UPPER PART EXCHANGE</u> AT-FUL - HU - LT - SI
<u>LOCOMOTIVE 4</u> BE - FR - HDH - NO - SK - TK	<u>CONTROL SYSTEM</u> BE - DE - LT - NL	<u>CAD/CNC FILE COLLECTORS</u>	<u>FINAL PRESENTATION</u> HR - IT - SK
	<u>PRESENTATION</u> FR - HU - LT - NO - PL - RO - TR	<u>CAD/CNC GALLERY</u>	<u>RUNNING SMOOTHNESS CONTROLLING</u> BE - FR - RO
		<u>VIDEO PUBLISHING</u>	<u>EU/MEP CONTACT</u> AT-STP - DE - IR - LU
		<u>ONLINE QUESTIONNAIRE</u>	<u>SHIRT & STICKERS</u> FI - IS - PT - SE
		<u>MULTILINGUAL TECHNICAL GLOSSARY</u>	<u>ELECTRONIC GIMMICKS</u> ELECTRONIC STUDENTS
		<u>TEACHING MATERIAL (WAGON PRODUCTION)</u>	<u>TOTAL ASSEMBLY DRAWING</u> <u>TOTAL PART LIST</u>
		<u>ONLINE COMMUNICATION AND VIDEO CONFERENCE</u>	





HOMEWORK AT01 MINUTES

- ★ Please send the minutes with your results, decisions and your visions of the work process from worklines A, B, C, D and E back to the project coordinator as soon as possible.

comenius@cnc-network.eu





HOMWORK AT02

GET MEMBERSHIP OF THE CNC-FORUM

- ★ Get membership of the CNC-Forum

... in order to be able to have a view to important documents including the possibility to upload and to share documents within your work group and within the project in total.

*<http://www.cnc-network.eu>
[ID] Firstname Lastname*



HOMework AT03

MAILING LIST

- ★ Please check the mailing list in the mails you get from Heinz
- ★ In case of mistakes or missing persons please tell to Heinz and he will change the list
- ★ You can contact Heinz by mail
comenius@cnc-network.eu





HOMework AT04

STAY IN CONTACT IN YOUR GROUPS

- ★ Please stay in close contact to the members of your work groups, especially to the representative.
- ★ Discuss, prepare and improve your ideas and visions for the meeting in Austria.





HOMework AT05

NEWSPAPER ARTICLE

- ★ Get into contact with the local media (newspaper, radio, TV) and send a copy to

comenius@cnc-network.eu





HOMework AT06

EUROPEAN SHARED TREASURE (EST)

- ★ Please check the letter you've already got from your National Agency about EST
- ★ Therein you will find the password to get access to the EST
- ★ Please check together with your National Agency in case your school is not listed in EST
- ★ Translate the description of the T4EU-R project into your mother language in the section of your partnerschool.



HOMework AT07

FINAL MEETING

- ★ Get into contact with representatives of the European Union in your country asking them for an invitation to Brussels





HOMework AT08 TRACK PARCOURS

- ★ In case you haven't done already for the meeting in Finland please produce now the number of tracks according the decision made in the working group.
- ★ In case you don't know the details please have a look to the forum or ask the Track Parcours Group.





HOMework AT09

PHOTO, VIDEO, CAD/CNC GALLERY

- ★ Please take care of all the photos, videos and drawings taken by all members of your delegation.



HOMework AT10

UNDERCARRIAGE GROUP

- ★ Have a look to the project forum and check for technical drawings
- ★ As soon as all drawings are published produce one complete Undercarriage for the next meeting in St. Pölten.





HOMework AT11

UNDERCARRIAGE ASSISTANCE

- ★ All countries should post into the forum until 19.10.2012, if they are able to manufacture all the parts of the common undercarriage or not.

Examples:

[ID] We are able to produce all parts.

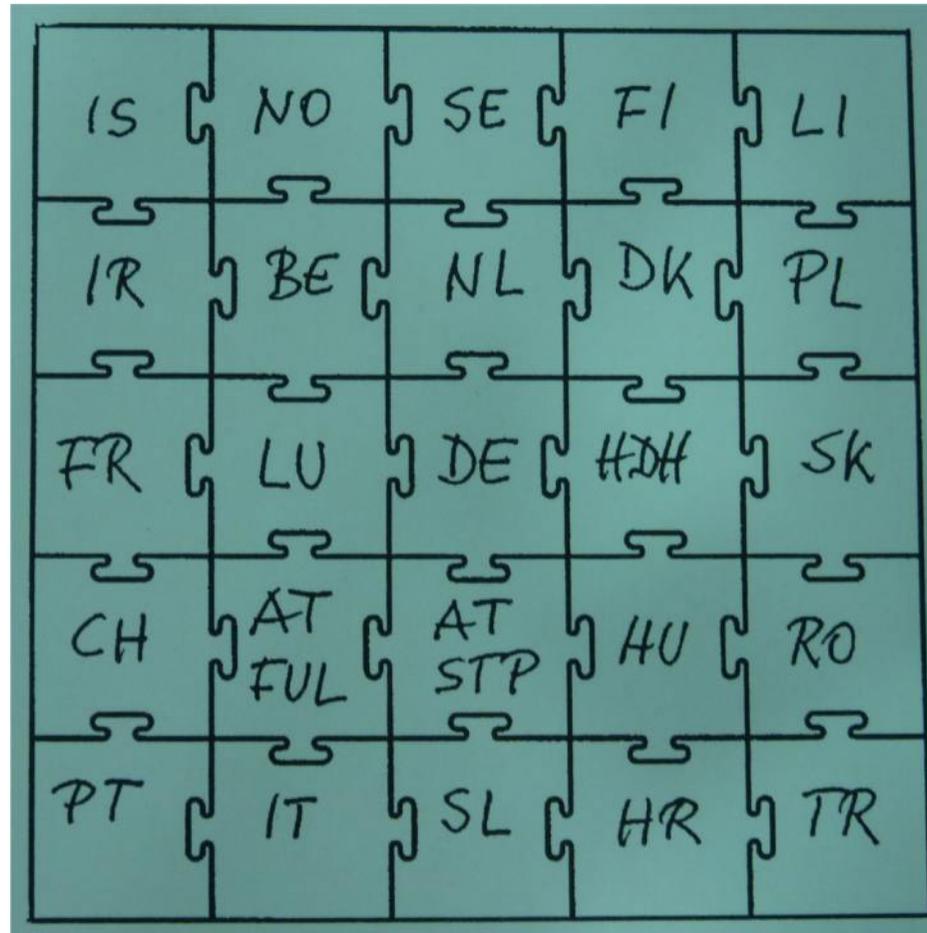
[ID] We are able to produce all parts, except ...





HOMWORK AT12

EUROPEAN ELECTRONIC MAP



HOMework AT12

EUROPEAN ELECTRONIC MAP

- ★ Produce your jigsaw puzzle piece with engraving



HOMEWORK AT13

EEP PRESENTATION

- ★ For each school to make PowerPoint presentations according to the template.
- ★ The template will be on the forum till 1st of October.
- ★ Presentations should be put on the forum and brought on USB stick to Austria.
- ★ The explanation about the slides is in the minutes.





HOMEWORK AT14

ONLINE EVALUATION

- ★ Please fill in the form of the Online Evaluation
- ★ Therefore you will get by mail to links – one for the students and one for the teachers
- ★ Please take care that all participants of the meeting in Finland will fill in the evaluation





HOMEWORK AT15 VIDEO PUBLISHING

Students from each Nation participating to our project should provide:

- ★ A video lasting 1 minute concerning the realization of one of our train parts;
- ★ The picture of the raw part;
- ★ The picture of the finished piece.





HOMEWORK AT16

MULTILINGUAL TECHNICAL GLOSSARY

- ★ Register on the Moodle platform (step-by-step explanation is on the Forum)
- ★ Translate all the words into native languages till the 1st of December



HOMework AT17

ONLINE QUESTIONNAIRE

- ★ All countries should have provided us with a minimum of 8 questions, that is 2 for each of the 4 categories:
 1. CNC technologies
 2. Materials
 3. Electrical Engineering
 4. Machine elements general knowledge
- ★ Deadline: end of September





QUOTATION OUT OF OUR RESOLUTION



“Each participant will build at least 10 (ten) upper parts of the wagons ... one for school’s own use and the other ones in order to allow exchange between project partners.”





QUOTATION OUT OF OUR RESOLUTION



“Each wagon will be equipped with electronic devices in order to communicate with the “European Electronic Map”.



WORKLINES OF THE FIFTH MEETING IN AUSTRIA

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WORK LINE A – LOCOMOTIVE

- ★ **Group No. 1**
CH – IS – NL – PL – RO
- ★ **Group No. 2**
AT STP – DE – HU – IE – LT – SI – PT
- ★ **Group No. 3**
AT FUL – DK – FI – HR – IT – LU
- ★ **Group No. 4**
BE – FR – HDH – NO – SK – TK





WORK LINE C – EUROPEAN ELECTRONIC MAP

- ★ **Group No. 1**
Supervisors AT-FUL DK FI HR IT LU
- ★ **Group No. 2**
Panel DE PT SI IS AT-STP CH HDH
- ★ **Group No. 3**
Desk SK SE IE TR
- ★ **Group No. 4**
Control System LT BE DE NL
- ★ **Group No. 5**
Presentation LT TR PL RO HU NO FR





WORK LINE D – SUPPORTING TASKS

- ★ Online Evaluation Tool
- ★ Photo/Video Collectors
- ★ Photo Gallery
- ★ CAD/CNC File Collectors
- ★ CAD/CNC Gallery
- ★ Video Publishing
- ★ Online Questionnaire
- ★ Multilingual Technical Glossary
- ★ Teaching Materials
- ★ Online Communication





WORK LINE E – „THE LAST MILE“

- ★ Common Undercarriage Assistance CH-DK-HDH-PL
- ★ Running Smoothness Controlling BE-FR-RO
- ★ Upper Part Exchange AT-FUL-HU-LT-SI
- ★ DVD Production “Project Essentials” ???
- ★ Final Presentation HR-IT-SK
- ★ EU / MEP – Contact Group DE-IR-AT-STP
 - ★ Public Relation NL-NO-TK
 - ★ Shirts & Stickers FI-IS-PT-SE
 - ★ Electronic Gimmicks E-Students
 - ★ Technical Documentary M-Students





ORGANISATION OF WORKLINES

- ★ **limited room** in workshops and in hotel
- ★ two simultaneous worklines
- ★ one „technical“ & one „supporting“ workline
- ★ „technical“ workline in school
- ★ „supporting“ workline in the hotel
- ★ **efficient** and time saving procedure





ORGANISATION OF WORKLINES

- ★ one technical“ & one „supporting“ workline

„technical“	„supporting“
A	E
C	D

- ★ **group assignment sheet** for internal use
- ★ **back side of sheet** showing workgroups, place and time





SPECIAL TASK FORCE GROUPS

- ★ **WHO WOULD LIKE**
to generate a professional total
assembly drawings and a part list of the
wagon undercarriage?
- ★ **WHO WOULD LIKE**
to assemble the track parcours?





HEIDENHAIN TRAINING

- ★ **WHO WOULD LIKE**
to generate a professional total
assembly drawings and a part list of the
wagon undercarriage?
- ★ **WHO WOULD LIKE**
to assemble the track parcours?



AGENDA PART 1 OF THE MEETING IN AUSTRIA

WEDNESDAY
30TH JANUARY 2013

THURSDAY
31ST JANUARY 2013

FRIDAY
01ST FEBRUARY 2013

ARRIVAL DAY

Meeting Registration

Arrival and Check-In at City Hotel Design & Classic in St. Pölten

19:00 **Welcome & Opening** (*Hotel-PL*)

20:00 **Dinner** (*Hotel*)

INTERNAL REVIEW & PRESENTATION DAY

9:00 **Meeting Details & Project Update** (*Hotel-PL*)
Welcome, meeting details and project update

11:15 **Workline A "Locomotive"** – Internal Review (*School-WS*)

Workline E "The last Mile" – Internal Review (*Hotel-GW*)

13:00 **Lunch Break & Free Time**

15:00 **Workline C "European Electronic Map"** – Internal Review (*School-WS*)

Workline D "Supporting Tasks" – Internal Review (*Hotel-GW*)

17:15 **Workline E "The last Mile"** – Presentation (*Hotel-PL*)

18:15 **Workline C "European Electronic Map"** – Presentation (*Hotel-PL*)

19:15 **Workline D "Supporting Tasks"** – Presentation (*Hotel-PL*)

SIGHTSEEING & TROUBLE SHOOTING DAY

8:30 **Guided Sightseeing Tour at School & City**

14:00 **Workline C "European Electronic Map"** – Trouble Shooting (*School-WS*)

Workline D "Supporting Tasks" – Trouble Shooting (*Hotel-GW*)

16:15 **Workline A "Locomotive"** – Trouble Shooting (*School-WS*)

Workline E "The last Mile" – Trouble Shooting (*Hotel-GW*)

18:00 **Good Evening Flashlight**



AGENDA PART 2 OF THE MEETING IN AUSTRIA

SATURDAY

02ND FEBRUARY 2013

PRESENTATION & DISCUSSING DAY

- 9:00 **Good Morning Flashlight** (*Hotel-PL*)
- 10:00 **Workline A "Locomotive"** – Presentation (*Hotel-PL*)
- 11:00 **Workline E "The last Mile"** – Presentation (*Hotel-PL*)
- 12:00 **Lunch Break & Free Time**
- 14:00 **Workline C "European Electronic Map"** – Presentation (*Hotel-PL*)
- 15:00 **Workline D "Supporting Tasks"** – Presentation (*Hotel-PL*)
- 16:30 **Workline A "Locomotive"** – Further Steps (*School-WS*)
Workline E "The last Mile" – Further Steps (*Hotel-GW*)
- 18:00 **Workline C "European Electronic Map"** – Further Steps (*School-WS*)
Workline D "Supporting Tasks" – Further Steps (*Hotel-GW*)
- 19:00 **Good Evening Flashlight**

SUNDAY

03RD FEBRUARY 2013

→ 8:00 Coach Departure

CULTURAL DAY

- 9:00 **Guided City Tour in Vienna**
- 13:00 **Lunch Break & Free Time**
- 16:30 **Coach Departure**
- 18:00 **Dinner in a Original Restaurant ("Heuriger")**
- 21:00 **Back to the Hotel**

MONDAY

04TH FEBRUARY 2013

→ 7:45 Coach Departure

COMPANY VISIT & CLOSURE DAY

- 9:30 **Visit the Voestalpine AG Company in Linz incl. Lunch Break**
- 15:30 **Travelling back to St. Pölten**
- 17:00 **Review, Evaluation & Homework** (*Hotel-PL*)
- 20:00 **Farewell Dinner**



AGENDA PART 2 (MODIFICATED) OF THE MEETING IN AUSTRIA

SATURDAY
02ND FEBRUARY 2013

PRESENTATION & DISCUSSING DAY

- 9:00 **Good Morning Flashlight** (*Hotel-PL*)
- 9:30 **Workline A "Locomotive"** – Trouble Shooting (*School-WS*)
Workline E "The last Mile" – Trouble Shooting (*Hotel-GW*)
- 11:00 **Workline C "European Electronic Map"** – Trouble Shooting (*School-WS*)
Workline D "Supporting Tasks" – Trouble Shooting (*Hotel-GW*)
- 12:30 **Lunch Break & Free Time**
- 14:00 **Workline A "Locomotive"** – Presentation (*Hotel-PL*)
- 14:45 **Workline E "The last Mile"** – Presentation (*Hotel-PL*)
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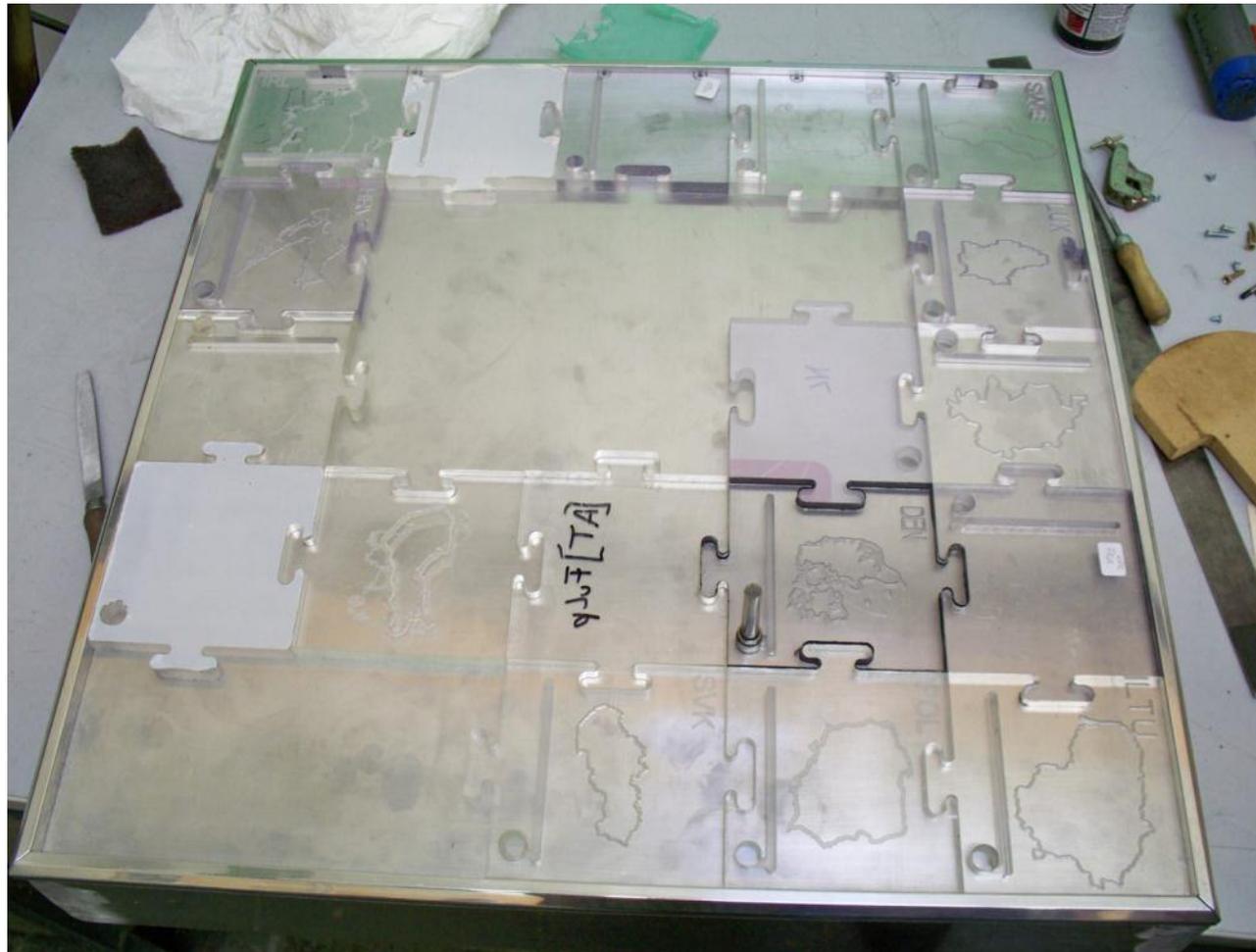
TRACK DISASTER



School
on the way to
Europe



PUZZLE DISASTER



School
on the way to
Europe



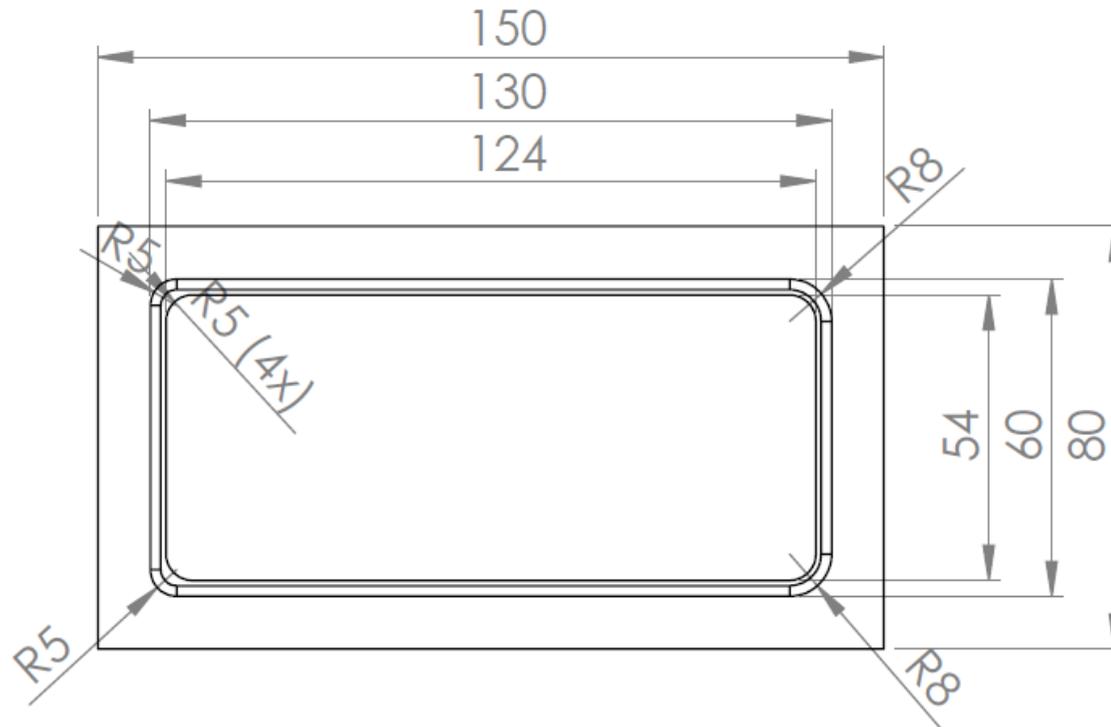
PUZZLE DISASTER → 28/02/2013

- ★ **AT-FUL:** slot, hole, thread and engraving are missing
- ★ **BE, HU:** wrong engraving (turned 90°)
- ★ **FR, NL:** engraving is missing
- ★ **IS, NO:** puzzle piece is missing
- ★ **PT:** have to correct the engraving
- ★ **RO:** puzzle piece is too small





CLICKING SYSTEM DISASTER



UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE IN MILLIMETERS
SURFACE FINISH:
TOLERANCES: **-0.2mm**
LINEAR:
ANGULAR:

VOTING FOR DEADLINE – EXCHANGING UPPER PARTS

- ★ during Final Meeting
 - ★ less time left
 - ★ heavy baggage → higher costs
 - ★ maybe lower risk of missing parts
 - ★ difficult handling during the meeting (bus, airport ...)
- ★ until 30/06/2013
 - ★ larger time window
 - ★ parcel costs → 2x ~25 €
 - ★ higher risk of missing parts
 - ★ handling much more comfortable for all of us





DATES

- ★ First Meeting in Croatia
14th until 20th of November 2011 (done)
- ★ Second Meeting in Portugal
5th until 11th of March 2012 (done)
- ★ Third Meeting in Slovenia
10th until 16th of May 2012 (done)
- ★ Fourth Meeting in Finland
16th until 22nd of September 2012 (done)
- ★ Fifth Meeting in Austria, St. Pölten (just now)
30th of January until 5th of February 2013
- ★ Final Meeting (DE - BE-EP - LU)
5th until 13th April 2013 (almost fixed)





COMENIUS SCHOOLPARTNERSHIPS

LET'S MOVE THE TRAIN FOR EUROPE



European CNC-Network „Train for EUROPE - RELOADED“

