

How to enable teachers to become digital leaders

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Interactive 2: Agenda

- Welcome everybody / Introduction
- Short lead into the theme (10')
- Some examples (10')
- Gathering Experiences (15')
- Discussion and knowledge transfer (40')

Leading questions

About the importance of teachers as “digital leaders”

- Why & What should teachers and / pedagogical staff should know about digital leading?
- What is our understanding of “digital leadership”? Do we mean the teachers role related to teaching with digital media?
- Or is it the ability to lead to a new kind of “digital learning”?

From our experience

What are teachers 21st Century Challenges?

1. Challenge: Online Collaboration (Online4Edu)
2. Challenge : Start IT project
3. Challenge: Coding (Code your life)

SUPPORTING THE DEVELOPMENT OF ICT SKILLS FOR YOUTH



- New Informatics standard approved and introduced at schools, starting from September 2015 (Computing from 1st grade, 155 schools applied for piloting)
- New Computing teaching programs developed and approved by the Industry
- Continuous support to teachers provided and guidelines for digital training materials developed
- Industry and NGO support to Informatics Olympiads

DEVELOPING IT EDUCATION TOGETHER

Start(IT) aim:

close the gap between education
and business demand –
double the number of IT students in Latvia

LIKTA
Latvijas Informācijas
un komunikācijas
tehnoloģijas asociācija



accenture



LISA

MAKIT
SCALE WEB DEVELOPMENT



EXIGEN
services

LIKTA
Latvijas Informācijas
un komunikācijas
tehnoloģijas asociācija

TARGETS OF COMPUTER SCIENCE COURSE FOR 2015/2016 A.Y.

- **Creating the Computer Science lessons**
The creation of Computer science lessons for 1st-9th grades, placement in portal www.startit.lv/datorika
- **Support for 150+ pilot schools**
Regular cooperation with schools, organisation of seminars and conferences, trainings for teachers
- **Activation of target groups**
Communication & marketing plan to attract and engage pupils, teachers, parents. Cooperation with Municipalities.
- **Creation of Start (IT) fund**
Establishment of Start (IT) Public Benefit Fund. Involvement of new members.

Interactive 2:

Yes!
What you see
is coding ...





Code your Life

Gerhard Seiler

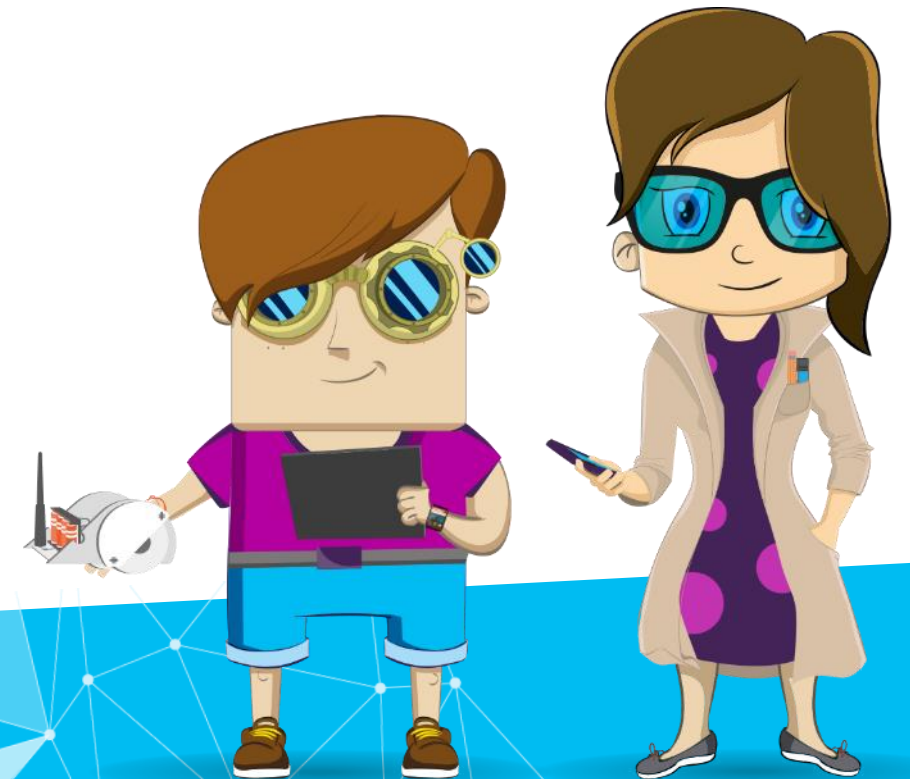
Gent, 07.10.2017

21st Century Competence Center



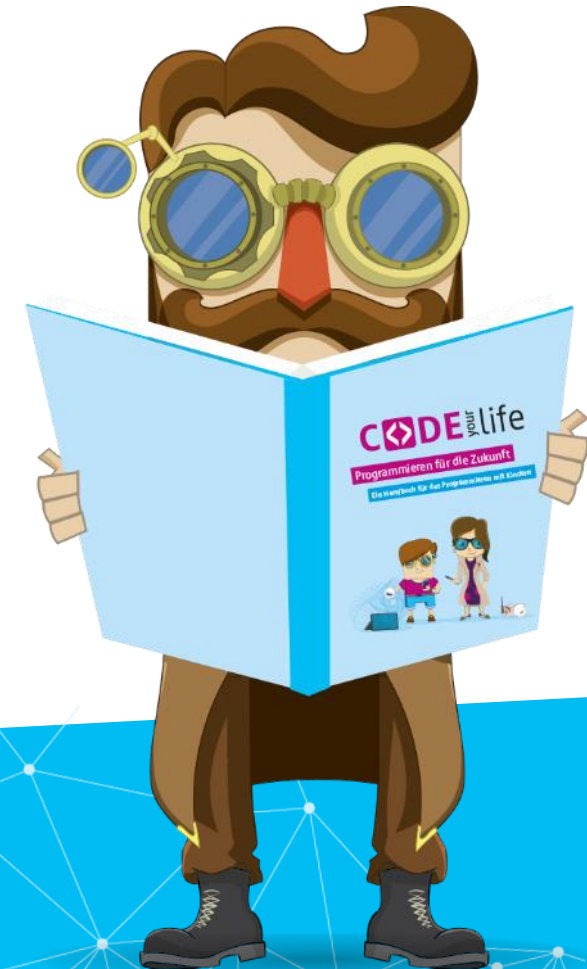
School Class meets Chancellor

CEBIT HANNOVER 2016 HIGHLIGHT



Our Ambassadors

15 MOP ON TOUR THROUGHOUT GERMANY



Handout

CURRICULUM FOR PEDAGOGUES

Our basic curriculum includes complete learning units with a detailed described flowchart further advice or references to didactic principles.

The learning units build upon each other and can be used as a self-learning approach for a coding tutorial.



TouchDevelop & Mirobot

TURTLE → FORWARD 2016

2016
WE CODE



With TouchDevelop every child will have the ability to program intuitive and without previous knowledge on any device.

No matter whether simple basic structures, complex patterns or complete artworks, the Mirobot is drawing it reliably.

Coding for everybody

ALL PARTICIPANTS ARE INSPIRED

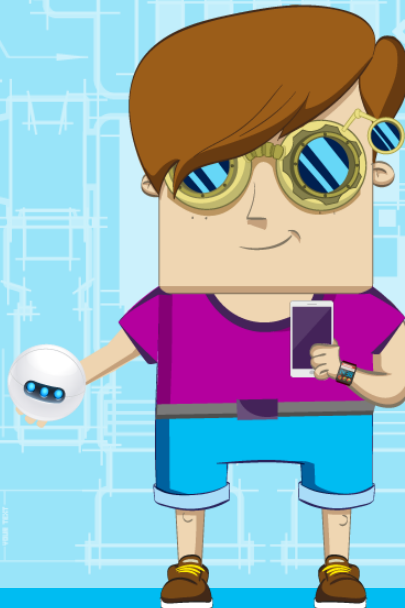
FOR GIRLS

„The Buttons are great“



FOR BOYS

„I have the the turtle under control“



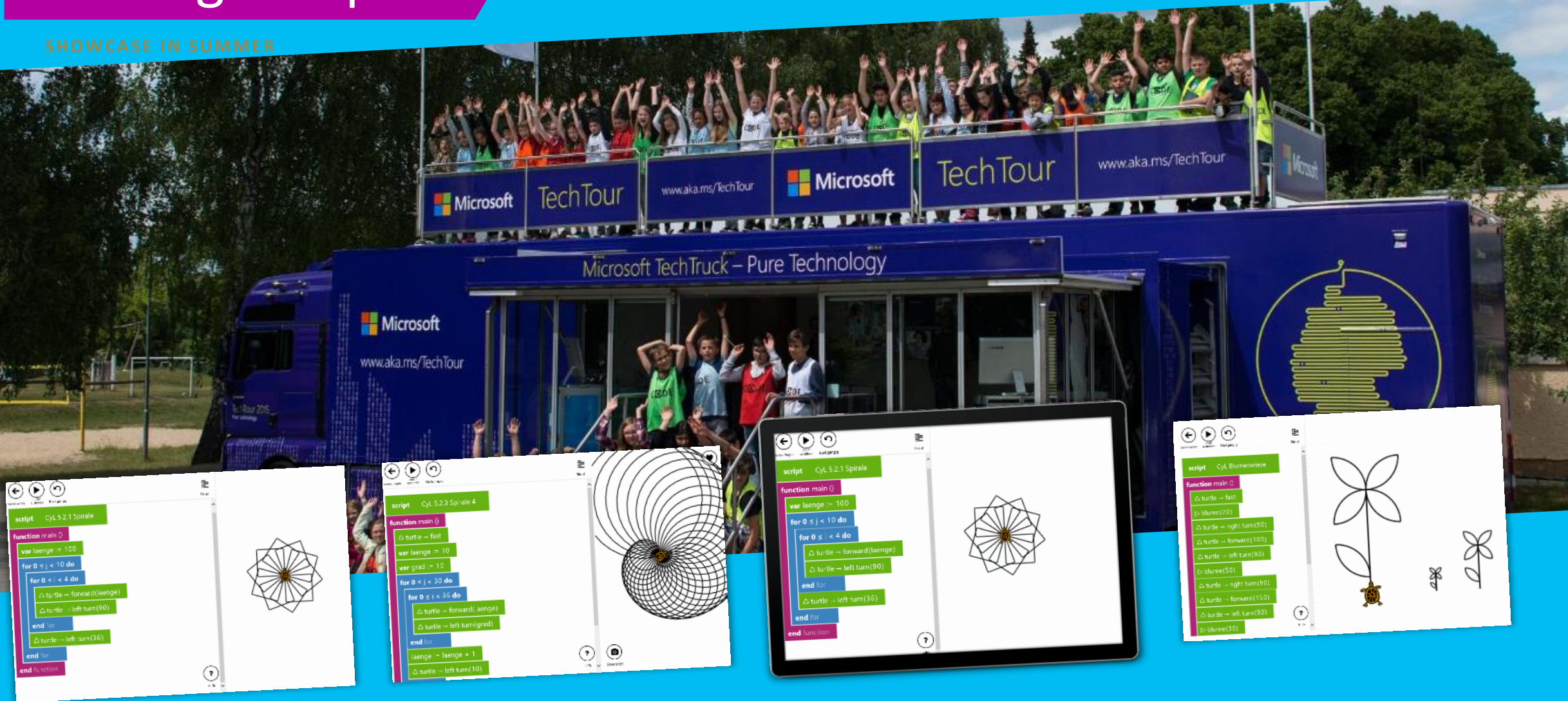
FOR TEACHERS

„Super easy and well thought out“



Coding Camp

SHOWCASE IN SUMMER



Expansion of the program

FROM BASIC CURRICULUM TO A COMPLETE OFFER

- Further development of Turtle programming with introductory offer and tasks for next class and Experts
- Basic service for programming with Minecraft and using Minecraft EDU
- Basic service for the use of Micro-bit Arduino (Makerspace), Raspberry Pi (Sonic PI), ...
- Building new language version



Interactive 2:

Campaigns and events

- **EU Code week 2016** (October 15 - 23, 2016)
- **Get Online Week 2017** (March 27 - Apr. 2, 2017)
- **Code Your Life Summer Camp 2017** (end of June 2017)

Interactive 2:

Thank you – now it's your turn!
What is your experience?
What are the challenges of Telecentres?
Let's talk about it!