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Libraries
in the Digital Age

Innovative Services
and the
Transformation
of Space





Cologne

1.000.000 inhabitants

About 35 % with
migration background

100.000 students



The Library System



Top 10 Strategic Technology Trends for 2015

Merging the Real World and the Virtual World

Computing Everywhere



The Internet of Things



3D Printing



Intelligence Everywhere

Advanced, Pervasive and Invisible Analytics



Context-Rich Systems



Smart Machines



The New IT Reality Emerges

Cloud/Client Computing



Software-Defined Applications and Infrastructure



Web-Scale IT



Risk-Based Security and Self-Protection



Gartner 2015 Top 10 Strategic Trends

1. Computing Everywhere
2. The Internet of Things
- 3. 3D Printing**
4. Advanced, Pervasive and Invisible Analytics
5. Context-Rich Systems
6. Smart Machines
7. Cloud/Client Computing
8. Software-Defined Applications & Infrastructure
9. Web-Scale IT
10. Risk-Based Security & Self-Protection

What is the impact on Public Libraries?

Change

... to **working with people** rather than working with books

... from a supplier of products and services to a facilitator to help people to develop **own products**

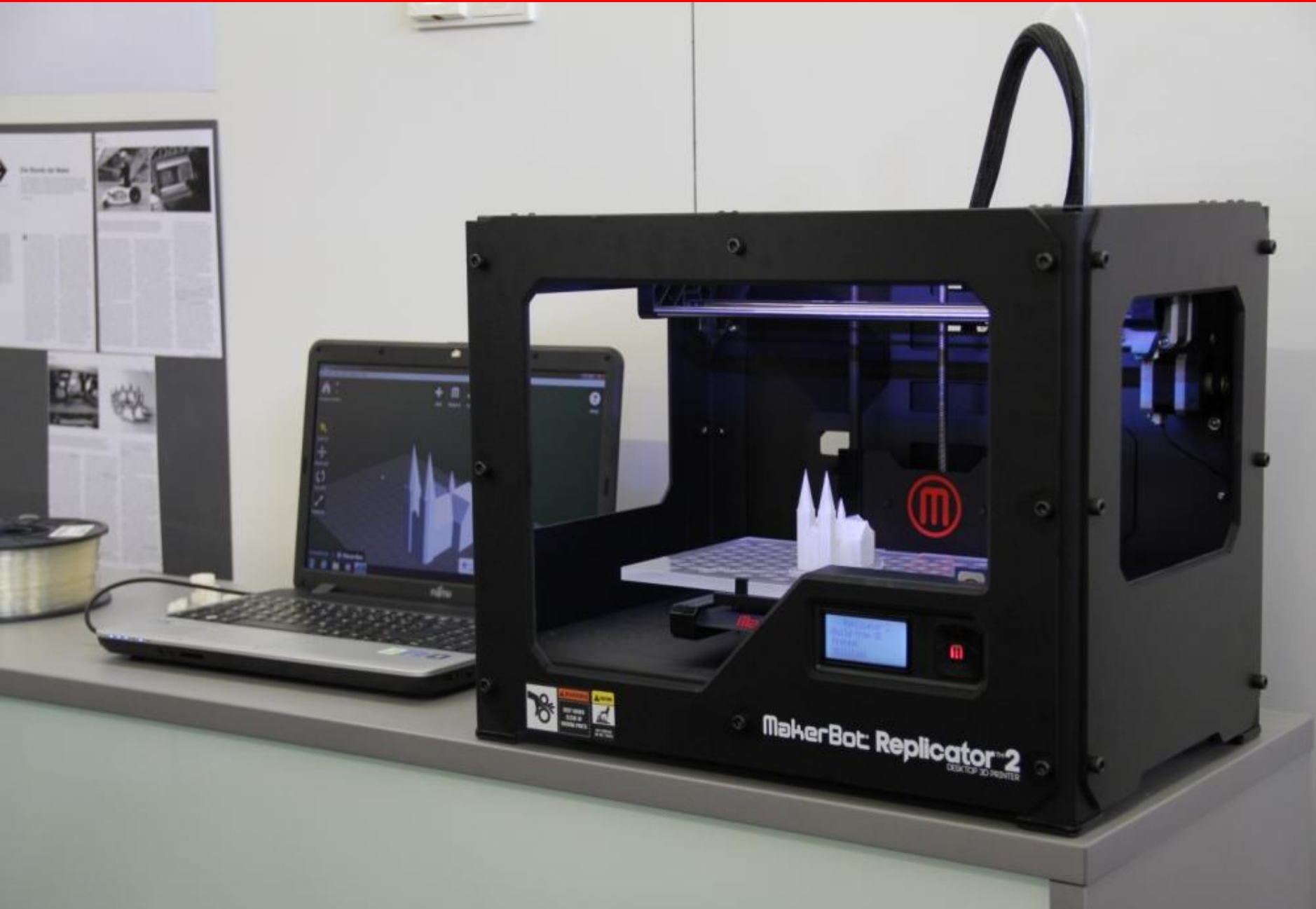
Music, Media, Makerspace



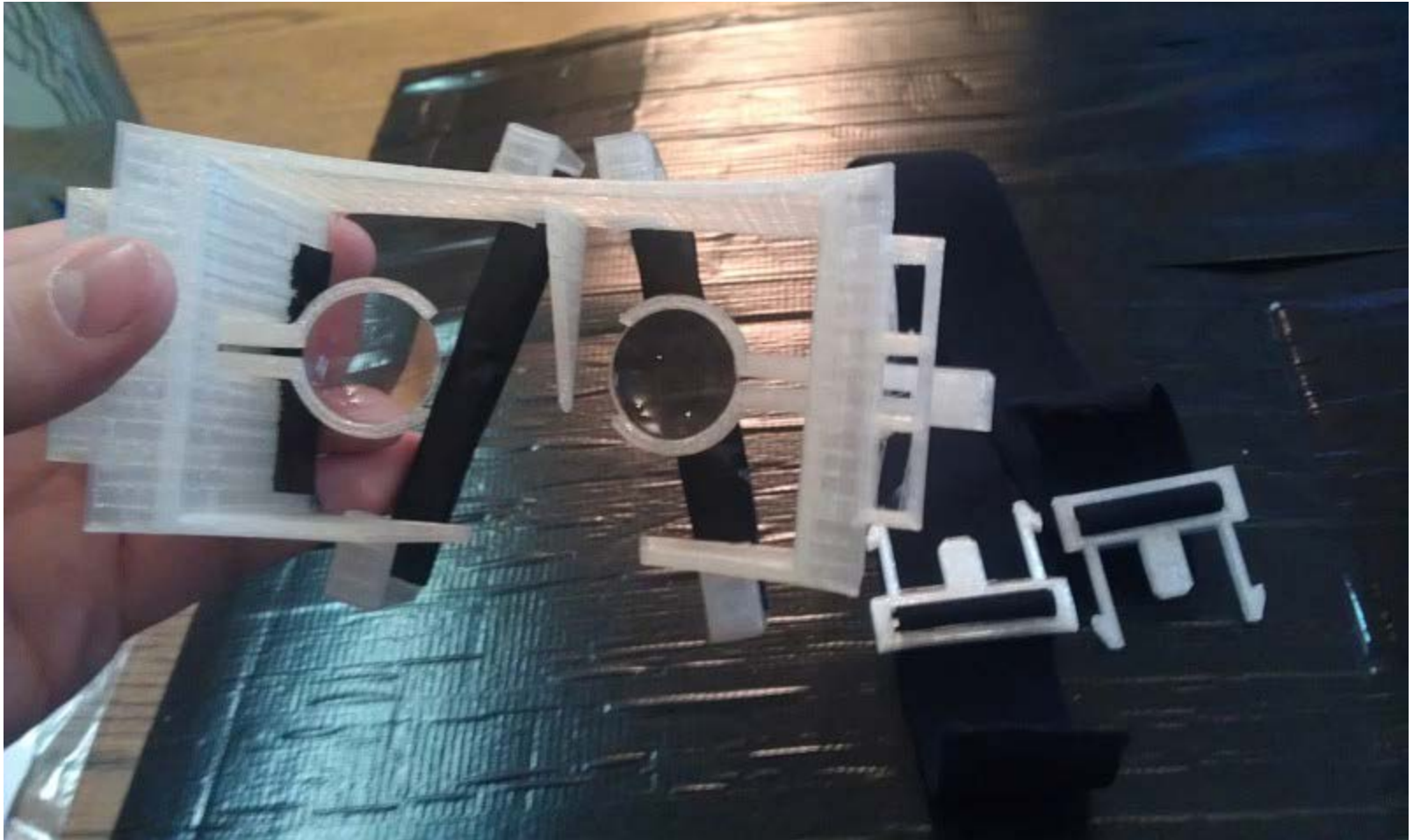
Role Change: From Recipient to Producer



Our 3D-Printer



Virtual 3D-Glasses



Our 3D-Scanner







MAKERSPACE

The library as innovation space

Innovation is our new service



New Formats



Makerspace – Do-it-yourself Program I

- How to use a 3D printer
- Programming a Finch Robot for beginners
- The basics of sound technology
- Launchpad and Ableton Live
- How to set up your own blog
- Virtual reality with Oculus Rift
- Being creative with MaKey MaKey
- Generative 3D geometry
- Rock guitar & electric bass for beginners
- Cross border # creative writing
- How to use a digital SLR camera / reflex camera



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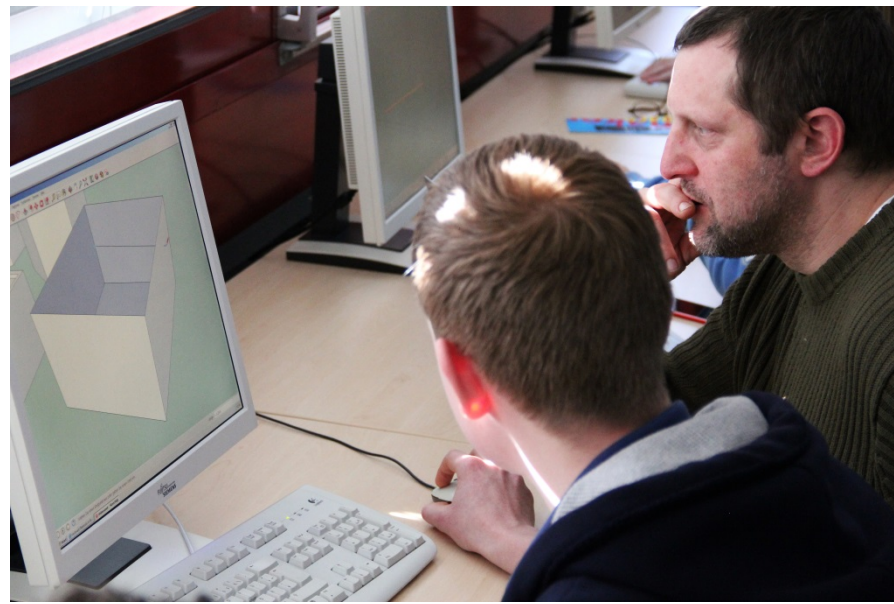
JUNIOR EXPERTS

Makerspace – Do-it-yourself Program II

- Digital photo editing
- Arduino workshop for beginners
- How to make designs with a cutter/plotter
- Producing music with the iPad
- Creating e-books with the iPad
- Designing a photo book
- Virtual reality with Oculus Rift
- SketchUp for beginners
- Arduino workshop for advanced participants
- Product photography for DIY people
- iMovie
- SketchUp for advanced participants

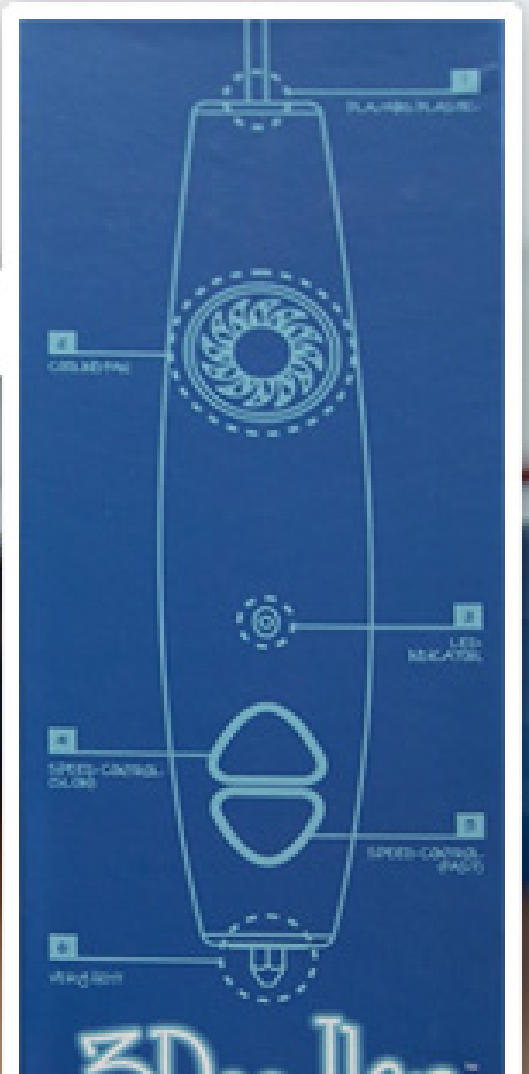


Maker-
space



Sketchup – Producing 3D-Files

Maker-
space



Painting with the 3D-Doodler

SEE MORE
PICTURES!

Makerday





Maker Day

Maker-
space



<https://makezineblog.files.wordpress.com/2014/06/student-soldering.jpg>



Maker Kids – Workshops for Ages 8-12

Finch – Coding a robot

go4IT! Lego-Mindstorm-Workshop for girls

Design-a-Thon

Take it apart! Repair-Café for kids

Crazy Machines

A photograph of two young girls in a maker space. They are sitting at a desk with a laptop. The girl on the right is typing on the keyboard, while the girl on the left looks on. In the foreground, there is a white and grey LEGO Mindstorm robot with a small screen labeled 'ALICE'. The background shows other people working on similar projects. A blue banner with the text 'Maker-space' is in the top left corner.

Maker-
space

Maker Kids

Go4IT

Lego-Mindstorm Workshop for Girls

Maker-
space



Maker Kids
Coding Finch Robots

Bee-Bots



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Events about
technology and
webculture



Der Oberbürgermeister

This is a Library...

Science Slam in the CPL



Airman Playing Light Harp



- Airman – Elektro-Pop-Concert
- Inside Wikipedia – Event with Wikipedia-Authors
- Star Craft II: E-Sport Intro
- 3D-Day / Makerday
- Space Research
- Cryptoparty
- Storytelling with Computer Games
- Twitter-Meeting
- Science-Slam

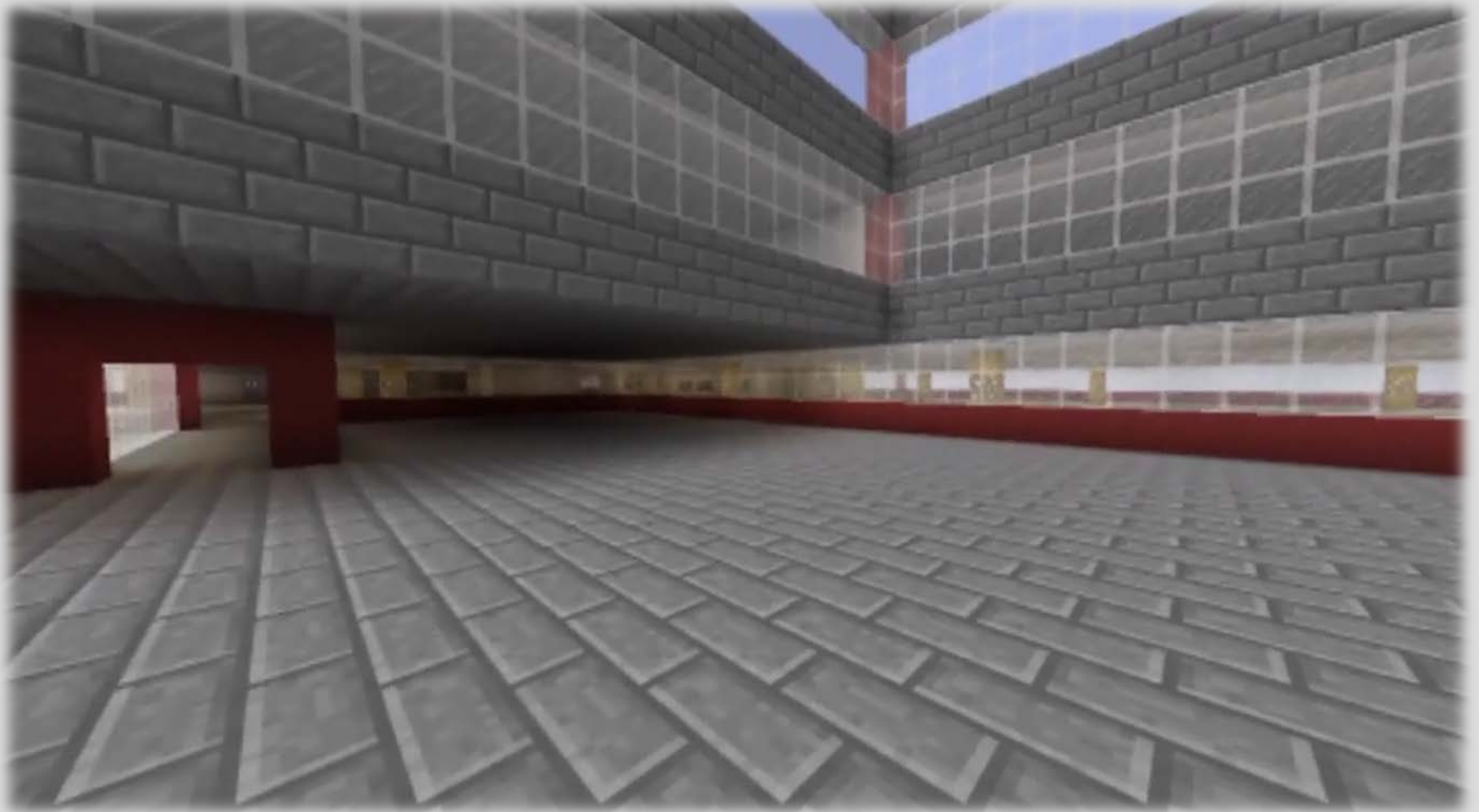




TRAVEL SLAM – in one hour around the world



Gamers as Producers



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Minecraft-Workshop – Remodelling the Central Library



Der Oberbürgermeister

Meeting of Generations



Easymotion - Silver Gamers



Digital Workshops for Starters

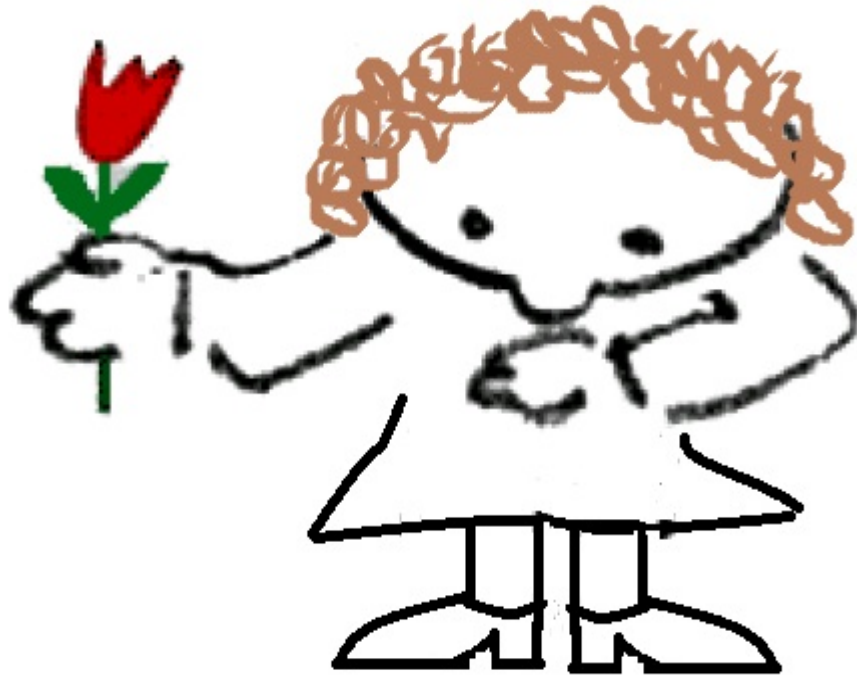
Internet Basics

- PC-Basics, Net-Security
- Online-Shopping
- Reference Services and Resources

Communication, Services, Hardware

- Facebook, Blog, Twitter
- My own Website
- Doodle, Online-Calendar
- Dropbox
- iPads, Smartphone-Apps
- E-Books, E-Reader, E-Publishing
- Mindmapping, Serious Games
- Skype





Thank you for your attention!

hannelore.vogt@stadt-koeln.de

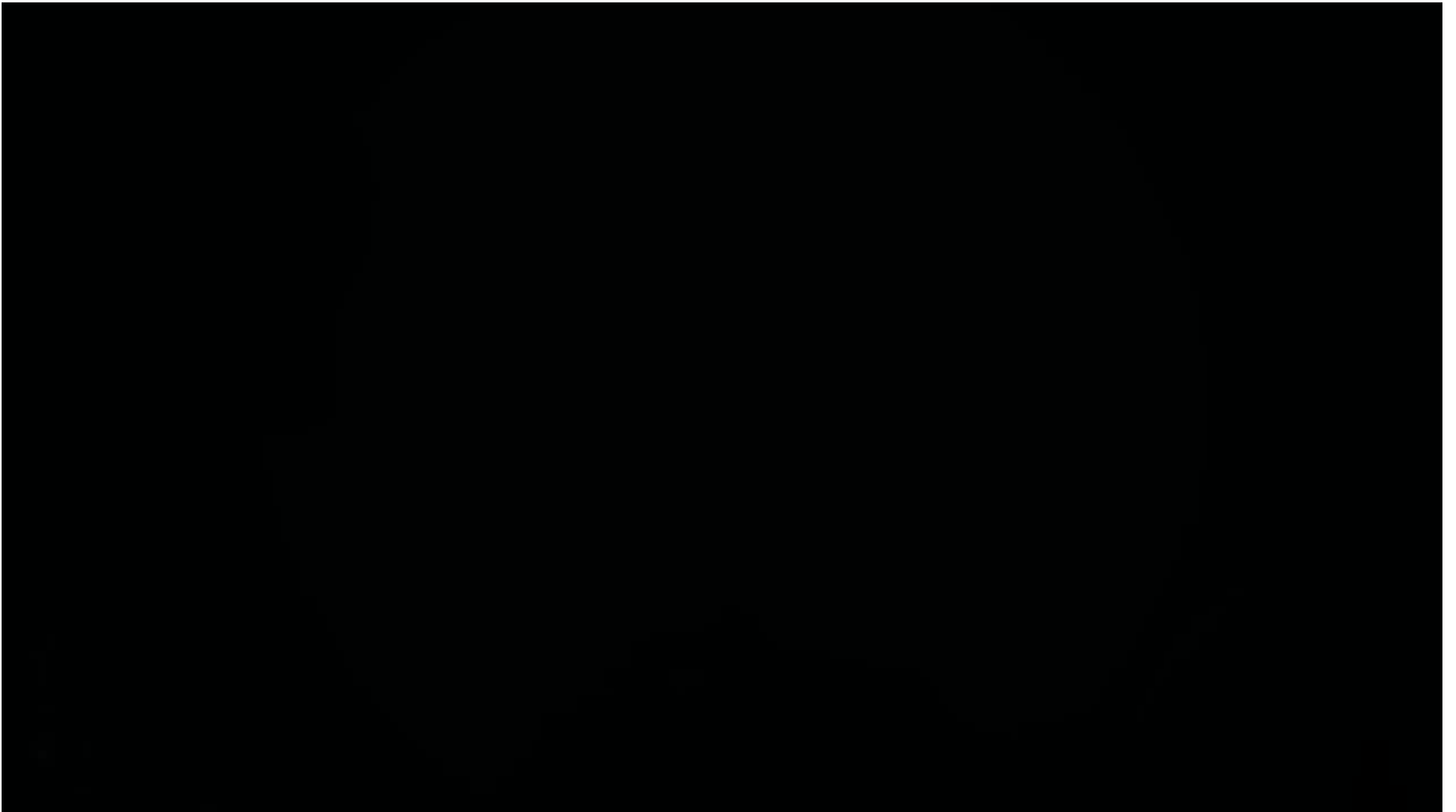


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PL2020 Tour – Germany
Martin Schulz interview



Der Oberbürgermeister



Finch-Robot



MAKER KIDS
OSTERN 2015

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