

# LLLight in Europe

LifeLong | Learning | Innovation | Growth &  
Human Capital | Tracks in Europe



# What is LLLight'in'Europe?

- FP7 research call on Lifelong Learning
- Coordinated by Zeppelin University
- January 2012 to September 2015
- Project Director: Peer Ederer
- Budget: 3.44 mio Euro
- Supervisory Board:
  - Xavier Prats Monne, Deputy DG Education and Culture
  - Andreas Schleicher, OECD
  - Oskar Heer, Global Head of Education Daimler AG
  - Iain Murray, Senior Policy Officer on Education, Trade Union Congress
  - Roger van Hoesel, Managing Director Food Valley Netherlands



# Participating Universities



**Zeppelin University, Germany**  
Peer Ederer



**University of Nottingham, United Kingdom**  
John Holford



**Danish School of Education, Denmark**  
Ulrik Brandt



**Ifo Institute, Germany**  
Ludger Woessmann



**Wageningen University, Netherlands**  
Thomas Lans



**University of Luxembourg, Luxembourg**  
Samuel Greiff



**University of Economics Bratislava, Slovakia**  
Martina Lubyova



**China Center for Human Capital, China**  
Haizheng Li



**Innovation & Growth Academy, Netherlands**  
Silvia Castellazzi

# Objectives of the research

- Obj 1. How do successful enterprises actively employ Lifelong Learning for their competitive advantage?
- Obj 2. Which public policy environments facilitate Lifelong Learning for such enterprises and entrepreneurs?
- Obj 3. How does Lifelong Learning interact with and promote innovativeness on the enterprise level?
- Obj 4. How much of which skills do European adults actually have?
- Obj 5. What are the actual learning mechanisms in adult life that lead to these skills?
- Obj 6. What are the causal effects of these skills on growth, competitiveness and social cohesion?

## Obj 4. How much of which skills do European adults actually have?

Understanding the skill of Complex Problem Solving (CPS), whereby we suspect CPS to be a good recorder of LLL activities by individuals, and at the same time to be a foundational skill for the acquisition of non-routine, job specific skills of high value. We will be testing a total of 4150 individuals, including 500 individuals in five enterprises in two longitudinal observations, 300 entrepreneurs in the above policy trails, and 600 in a cross reference study to PIAAC to establish for the first time ever a cross-national, cross-industrial reference set of CPS scores.

# Feedback from Participating Companies

*“We need more **flexibility**. And for this we need **measurement instruments**.“*

Wilfried Porth, Chief HR Officer  
Daimler AG

*“I see a great **potential** for our **HR** development in this project.“*

Jürgen Holeksa, Chief HR Officer ZF AG

*“Fascinating **knowledge**.“*

Alexander Janoschka, Partner  
Janoschka GmbH

*“I have **always** wanted to **know this**.“*

Michael Schleupen, CEO and Partner  
Audicon GmbH

*“Thanks to our innovativeness we are leading the **market worldwide** with our products. Measuring the innovation capabilities of our company through the instruments of the **Zeppelin University helps us** identify where we can improve ourselves further.”*

Dr. Andreas Wolf, CEO  
LICOS Trucktec

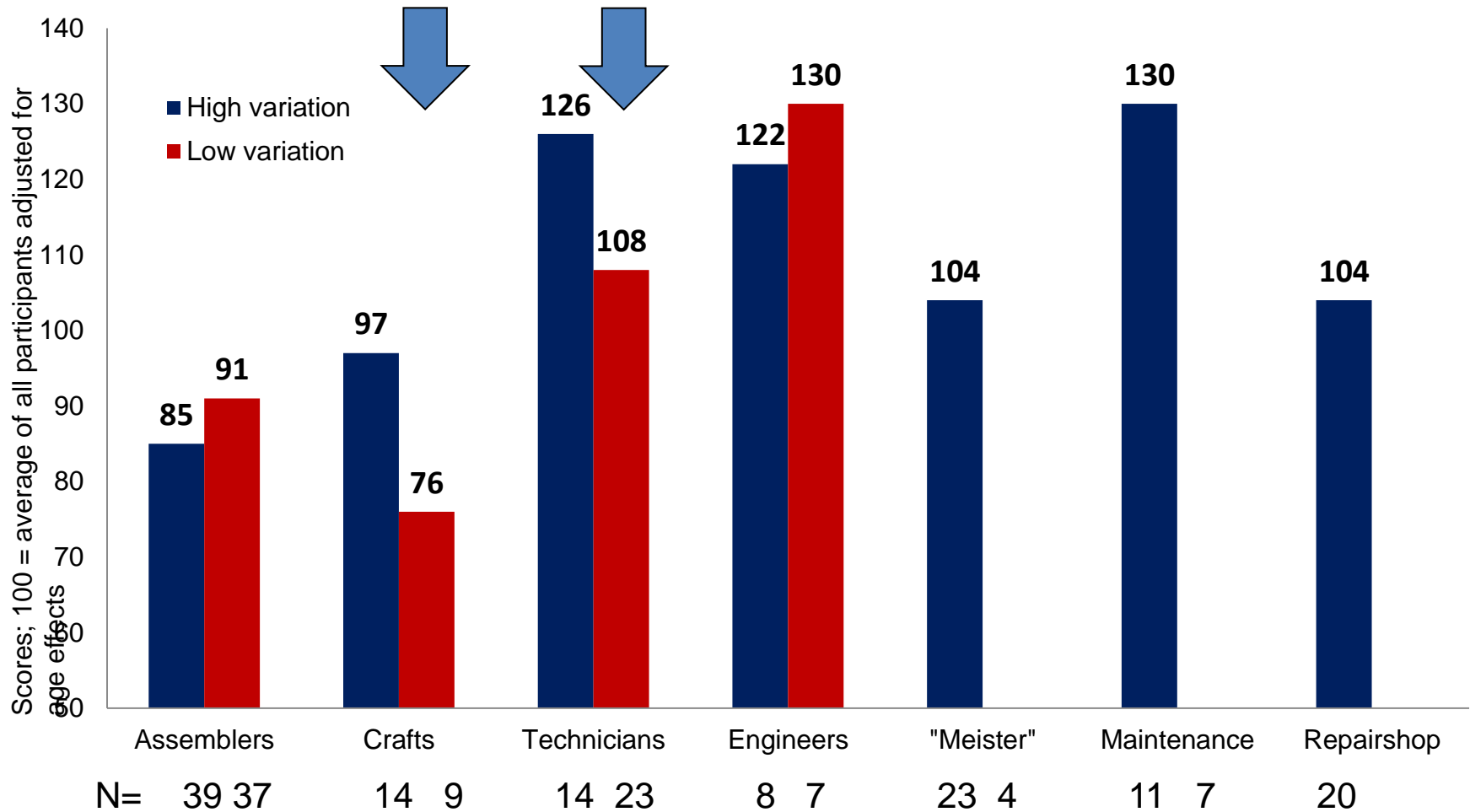


# Sample screenshot of CPS Test

The screenshot displays the 'Execution Environment for CBA' software. The interface is divided into several sections:

- Header:** Features a gear icon, the text 'Execution Environment for CBA', and navigation buttons for 'Cancel', 'Back', and 'Next'. A logo 'dipf' is visible in the top right corner.
- Tests Overview (Left Panel):** Lists 'Available tests' under the 'MicroDYN' category, including 'Instruktion01', 'Instruktion02', '01\_Schrauben' (highlighted), '02\_Mofa', '03\_Weltall', '04\_Handballtraining', '05\_Werbung', '06\_Chemielabor', '07\_Fabrik', '08\_Kuerbisse', and '09\_Spieleabend'.
- Execution Environment (Main Panel):**
  - Task:** 'Finden Sie die Zusammenhänge heraus und tragen Sie diese in das Modell ein!' (Find the relationships and enter them into the model!).
  - Round:** 'Runde 1' with a timer showing '180'.
  - Visuals:** A central illustration of a blue scooter with three fuel tanks (green, white, yellow).
  - Controls:** Three sliders for 'Carenol', 'Noresal', and 'Farunin', each with a scale from -- to ++. To the right, two numerical input fields for 'Geschwindigkeit' and 'Abgase', both set to '25'.
  - Buttons:** 'Hilfe', 'Alles löschen', 'Ausführen!', and 'Aufgabe beenden'.
- Modell (Bottom Panel):** A workspace for building the model, containing buttons for 'Carenol', 'Noresal', 'Farunin', 'Geschwindigkeit', and 'Abgase'.

# Blue factory with more variation, has higher CPS scores



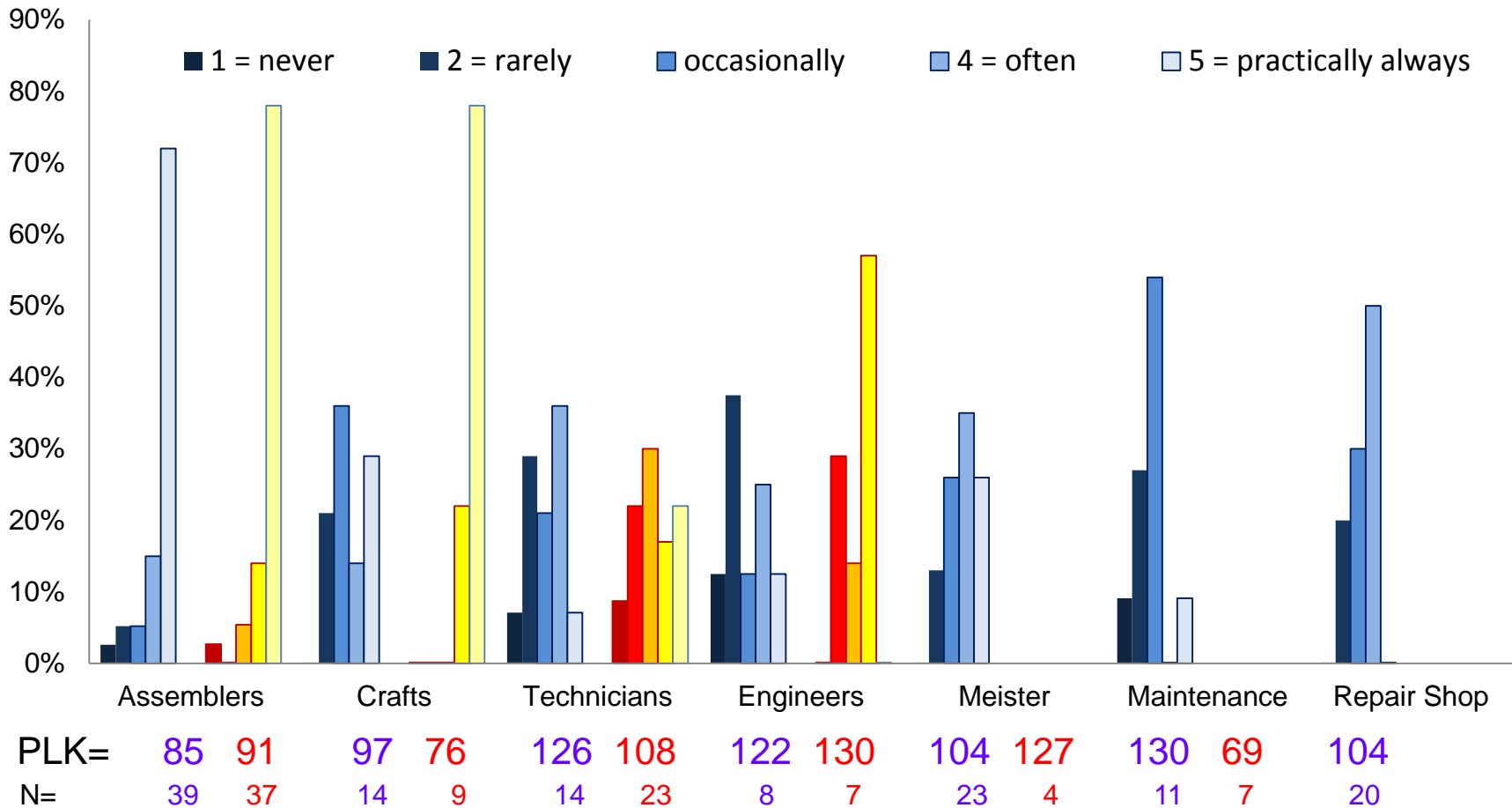
Source: analysis of pre-study data



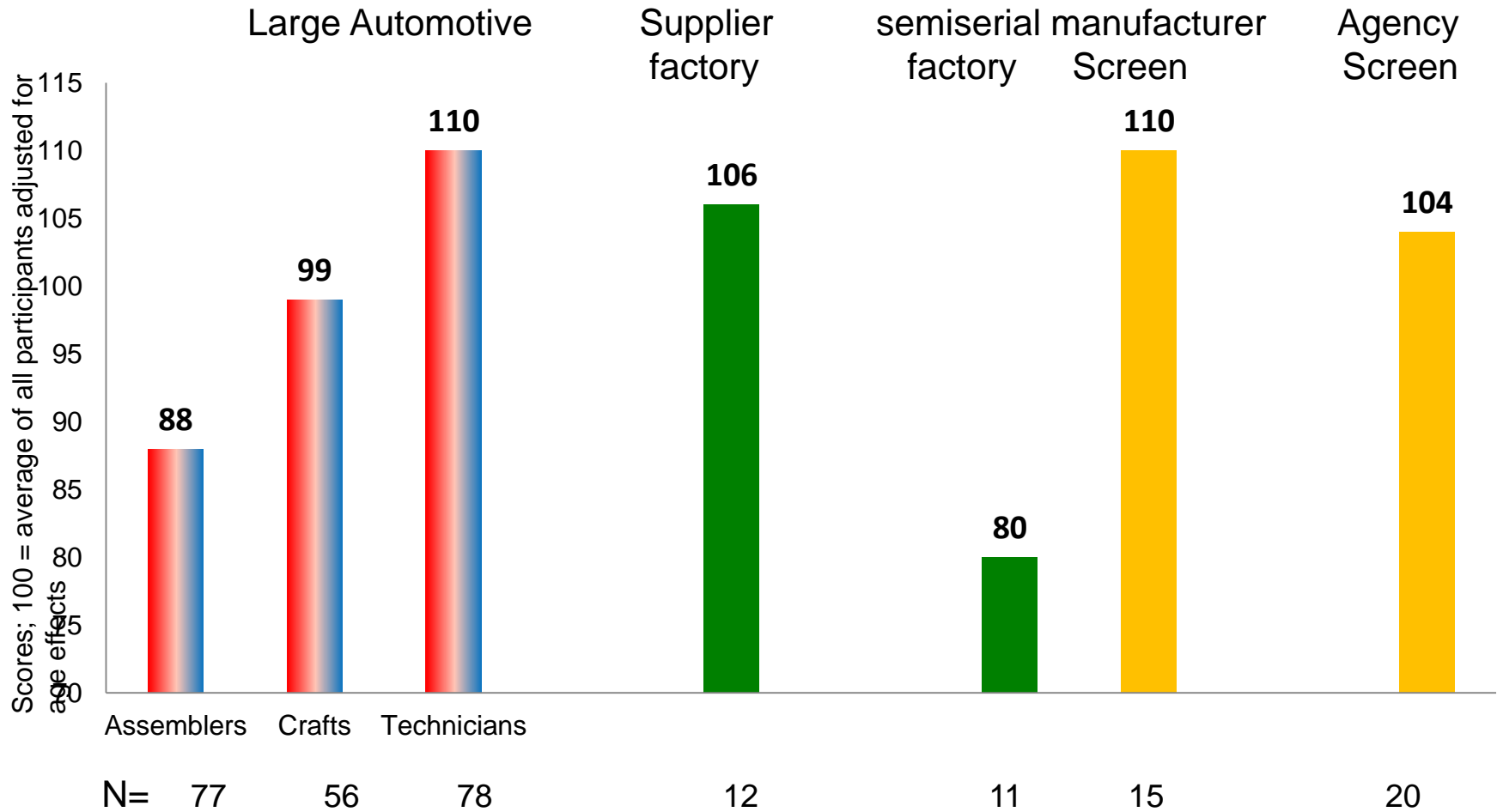


# Managerial style made the key difference

Question: How frequently do you receive precise Instructions?



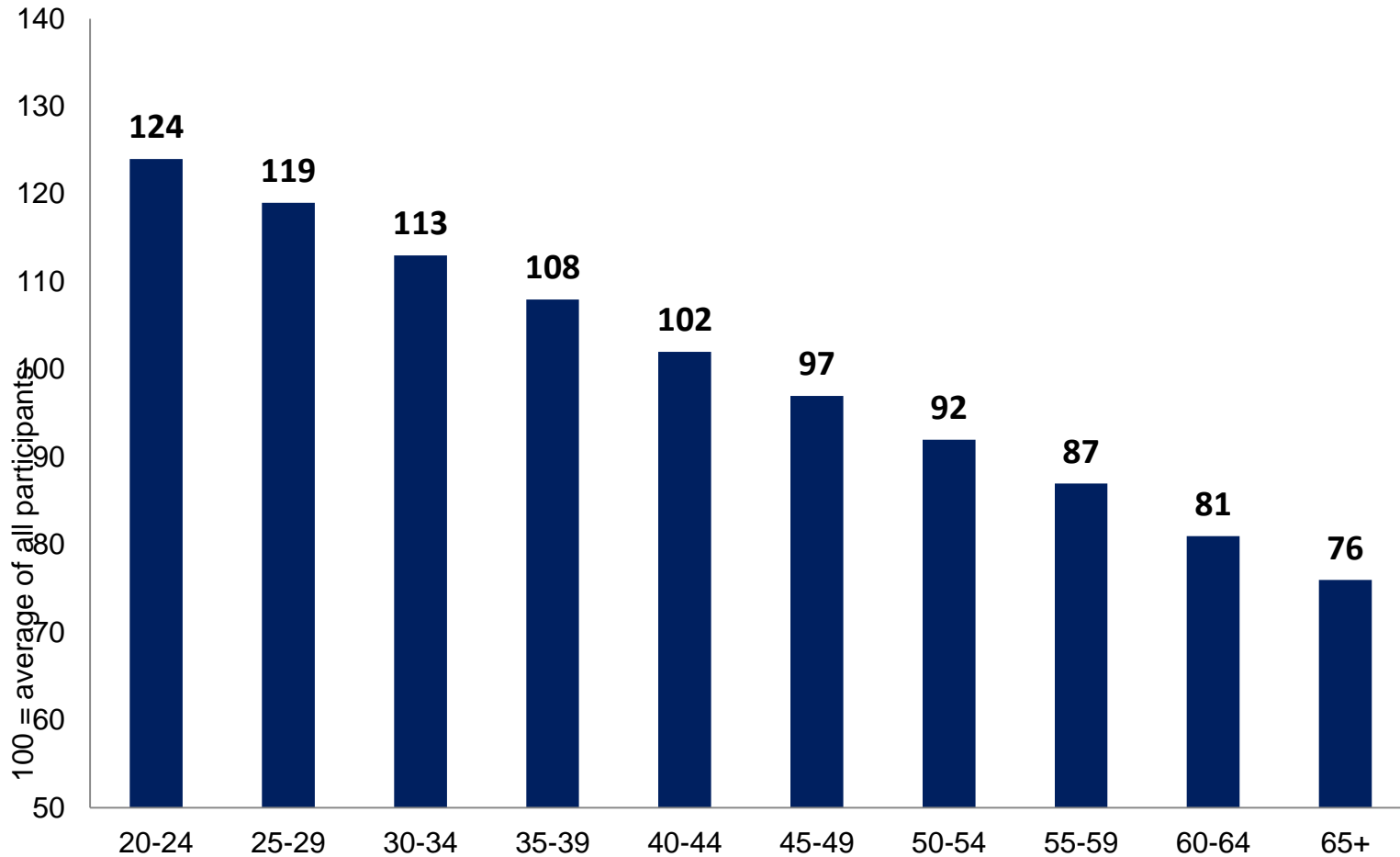
# Comparison large company with three SME



Source: analysis of pre-study data



# Age effect in complex problem solving



Source: Statistical evaluation by Zeppelin Universität on data sample



Thank you for your attention

and

please visit [www.llightineurope.com](http://www.llightineurope.com)

