



Foresight Policy Workshop, 27 May 2010, Brussels



The Future of Learning

New Ways to Learn
New Skills for Future Jobs

Foresight Policy Workshop
"New Ways to Learn New Skills for Future Jobs"
JRC IPTS – DG EAC, 27 May

An assessment of learner profiles and individual needs in Europe in 2025





How will schools meet future learning needs?

How can demand & supply of skills be matched?

How can people continuously update their skills?



Chanta

8 years

Emma 16 years

Learner Profiles and Individual Needs



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2

I'm bored. Why can't I go to uni already?

Why don't they teach you at uni what you need to find a job?

Joshua

23 years

Bruno

14 years

I am highly qualified – but my job has become

Slavi

55 years

Martina

59 years

Frank

75 years

Ingrid

32 years

Pedagogy remains important, teachers need to learn from one another

obsolete... School? Forget it! I'm How do I I need to improve. I would like to not going back there! qualify for a my soft skills, but I open my own new job with don't want them to business... I don't understand my poor CV? know... a word. I want to go home.

Sven

42 years



Scenario Development



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Š Children Youth

Qualifying for a job



Formal Learning

Quality & Efficiency



Emma, 16, needs new challenges

Workers with no/low qualifications



Ingrid, 32, needs to enter a new job field

Transition from Higher Education



Joshua, 23, relevant degrees, but lack of key

Non-Formal Learning

Early School Leaving



Bruno, 14, skips school

Re-skilling



Martina, 59, needs to enter a new job field

Up-skilling



Slavi, 55, wants to improve his management skills

Informal Learning

Social Cohesion



Chanta, 8, feels lost in a foreign country

Labour Market Reintegration



Sven, 42, full-time father. looking for a job

Teacher Training



Frank, **75**, wants to pass on his knowledge



Scenario Development



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Children & Youth

How will schools meet future learning needs?



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Qualifying for a job

How can demand & supply of skills be matched?



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Skills development

How can people continuously update their skills?



Joshua, 23, relevant degrees, but lack of key skills



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Frank, 75, wants to pass on his knowledge



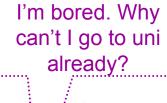
Methodology: 1st consultation



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6

https://spreadsheets.google.com/viewform?formkey=dF9aVFZxSDMtSWd2S01LV1VQVXg2VkE6MQ



Experimentation with different formats:

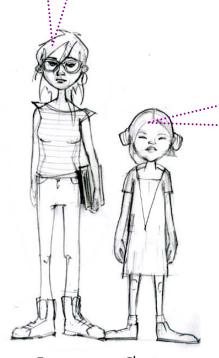
- → Open discussion on web platform
- → Short survey, 3x3 questions:
- 1) institutional change (Emma)
- 2) the role of teachers (Frank)
- 3) inclusion (Chanta)

N=45 responses

I don't understand a word. I want to go home. Pedagogy remains important, teachers need to learn from one another



Frank 75 years



Emma 16 years

Chanta 8 years



Methodology: 2nd consultation

I would like to

open my own business...



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http://www.surveymonkey.com/s/5FTV3RK

Re-skilling

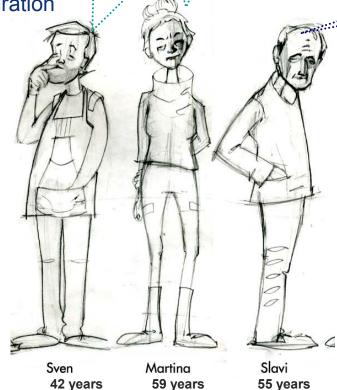
Online survey on 3 personas representing 3 themes; 6-8 questions per theme; N=89 respondents

I am highly qualified – but my job has become obsolete...

Up-skilling

I need to improve my soft skills, but I don't want them to know...

Labour market re-integration





Methodology: 3rd consultation



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Early School Leaving

http://www.surveymonkey.com/s/HV2PFXB

Transition from Higher Education

Why don't they teach you at uni what you need to find a job?

Workers with low skills

How do I qualify for a new job with my poor CV?

School? Forget it! I'm not going back there!

Bruno

14 years

Joshua

23 years

Online survey on 3 personas representing 3 themes; 6-8 questions per theme; N=54 respondents





Findings: Future School Education



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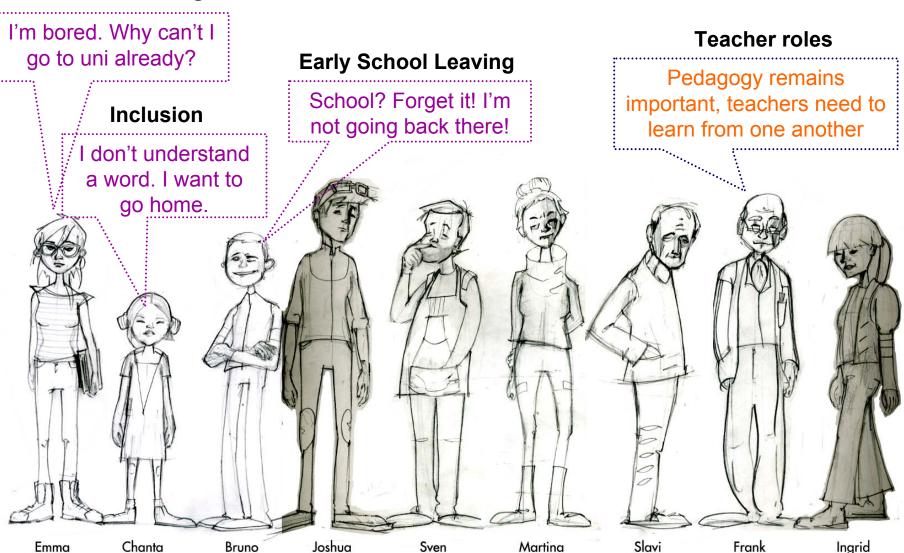
Institutional Change

16 years

8 years

14 years

23 years



42 years

59 years

55 years

75 years

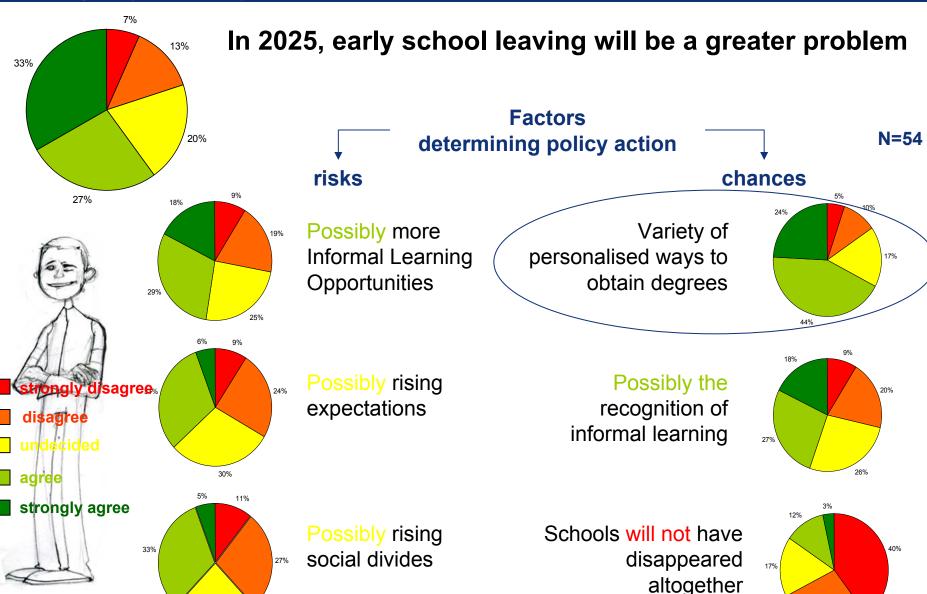
32 years



Bruno

Early School Leaving





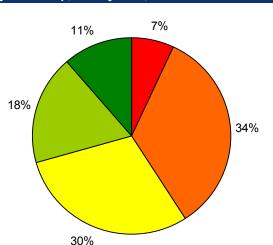
N = 45



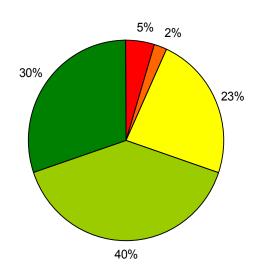
Institutional Change



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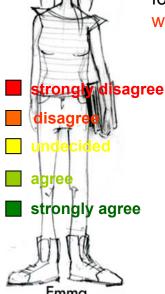
In 2025, existing structures of formal education and training will not have remained intact



Need to involve different stakeholders to transform E&T

In 2025, existing structures of formal education and training will have remained intact

Schools could become 'learning centres' which will guide you in your 'learning career'

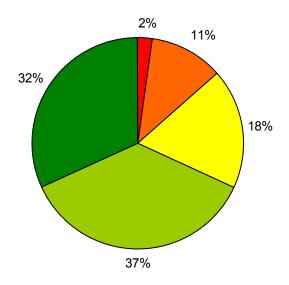


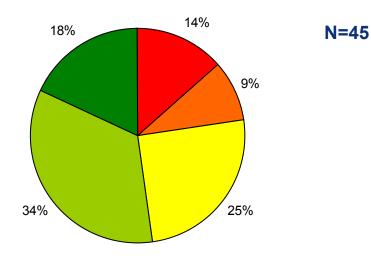


Inclusion

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Political leadership and greater openness and flexibility required to address multiculturalism





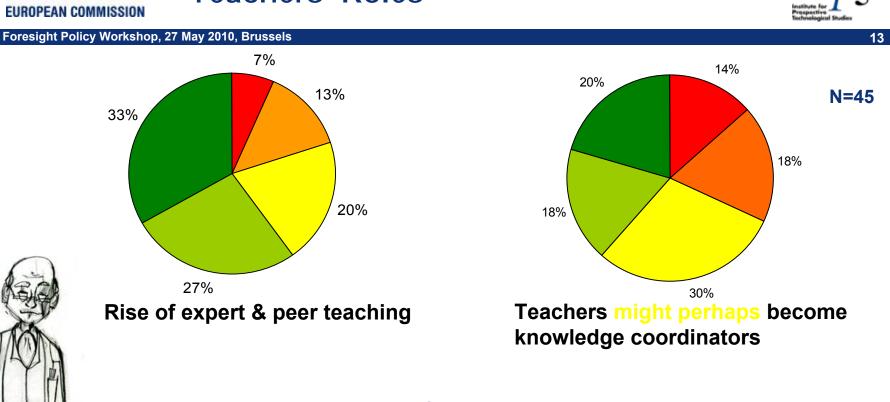
Schools could become learning and living spaces that welcome diversity and actively promote integration and inclusion

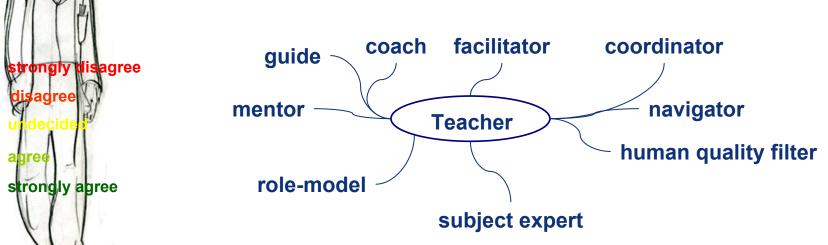


Frank

Teachers' Roles







Conclusions: The School of the Future

- Institutions will need to open up to society; respond more flexibly to learners' needs; become learning communities
 - → Promote inter-institutional collaboration Build on eTwinning; increase efforts to link secondary and tertiary E&T
- Teacher roles will expand and diversify;
 - → Collect Good Practice; encourage exchange & networking (eTwinning); work towards a common framework for teacher training
- Personalised and engaging learning opportunities are key for addressing all learners' needs
 - → Encourage experimentation, exchange and ICT take-up



Skills Development in 2020-30



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41

Transition from Higher Education to the workplace

Why don't they teach you at uni what you need to find a job?

Up-skilling

I need to improve my soft skills, but I don't want them to know...



Emma 16 years Chanta 8 years Bruno 14 years Joshua 23 years Sven 42 years Martina 59 years

s Slavi s 55 years

avi ears 79

Frank 75 years Ingrid 32 years

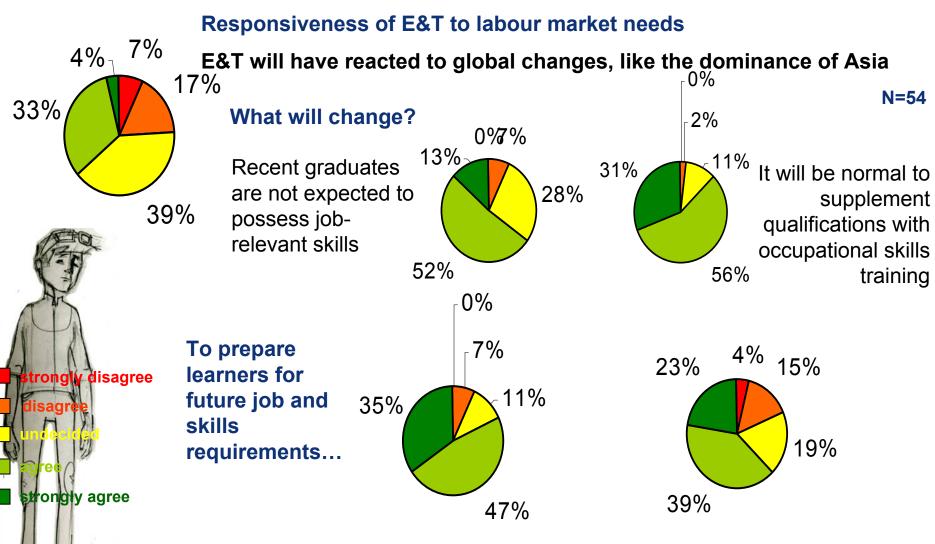


Transition from Higher Education to Work



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4.0



E&T institutions have to work closer together with industry

Transversal skills become more important than special skills

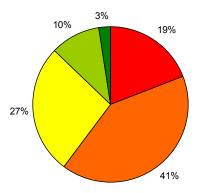


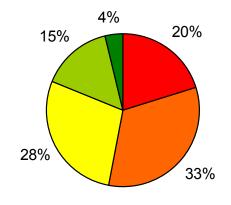
Up-skilling

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In the future, up-skilling becomes more important because:







Seniority and merit will not remain The skills needed for a new post the main criteria for promotion

will not develop automatically

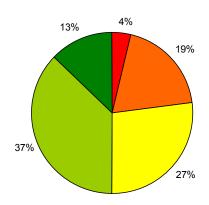


Up-skilling will become easier:



Sophisticated training tools make it easy to up-skill







Conclusion: Up-skilling



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- E&T needs to better anticipate changes and enter into a dialogue with industry on future skill needs
- Transversal skills become more important, e.g. learning to learn and digital literacy

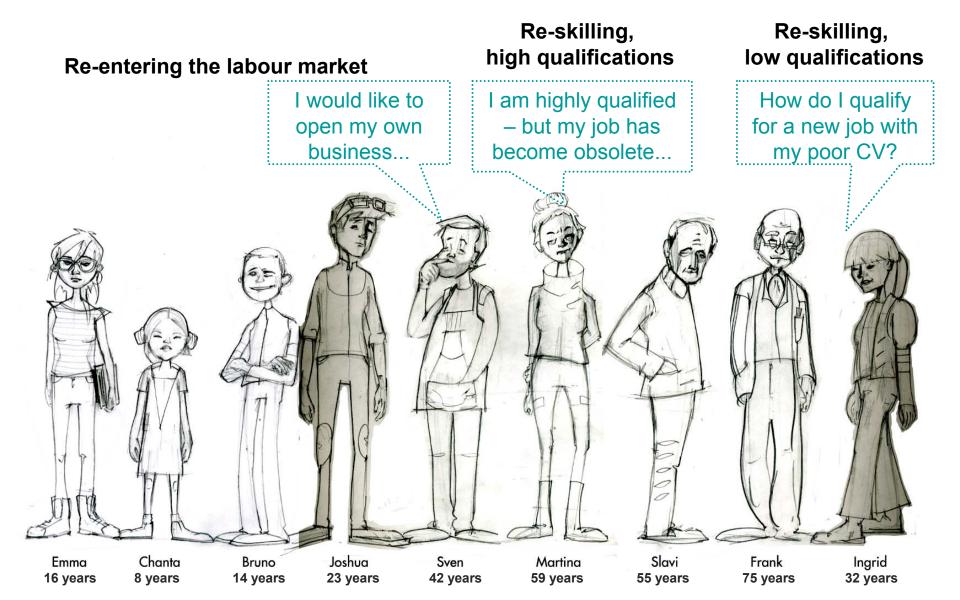


Professional Career Change



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40





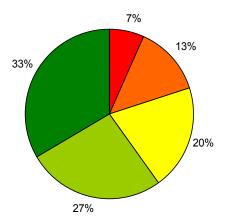
Re-integration into the labour market



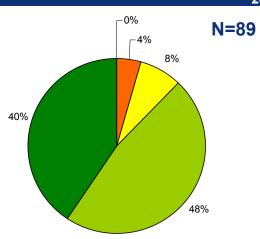
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20

What will change?



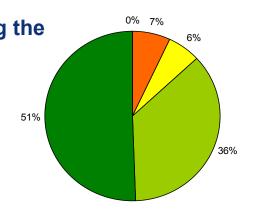
It will be common for citizens to change their professional profiles completely



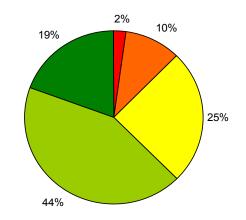
Increasing self-responsibility for qualifications



What will people who are re-entering the labour market need?



Recognition of informally acquired skills



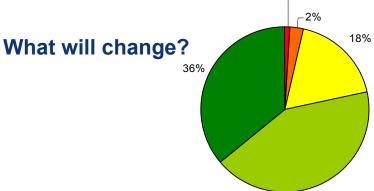
Practical skills training (without degree)



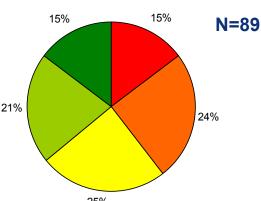
sagree

Martina

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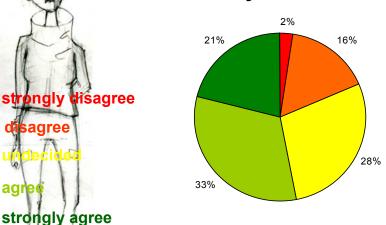


Labour Market Trends

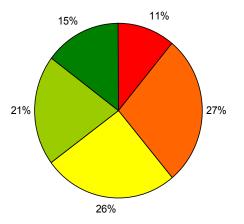


More jobs will become obsolete and others newly created

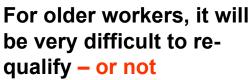
Higher skilled workers will not face more difficulties than lower skilled workers



Consequences



Re-skilling & changing professional profile will become normal



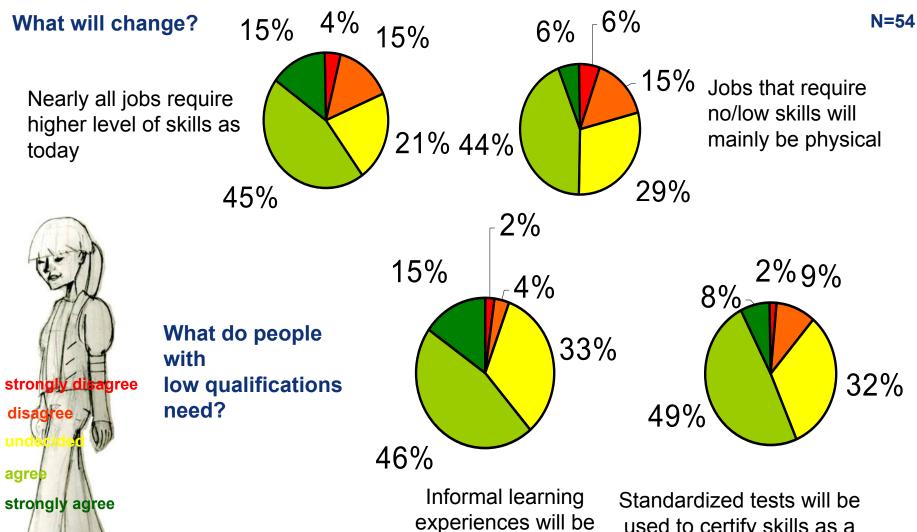


Re-skilling: Workers with low skills



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22



recognized

Recognition of informal learning

used to certify skills as a

basis for further training

Conclusion: Changing Professional Profiles



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23

Main trends

- Changing professional profile will become normal;
- Increased self-responsibility for training and skills updating;
- ICT will be used to support personalised training, e.g. simulations and autodidactic training programs.

Main policy challenges

- certification of informally acquired skills
- → Expand work on the EQF
- preparing citizens for change
- → identify and promote key competences that enable citizens to become lifelong-learners

Conclusions

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24

Children & Youth

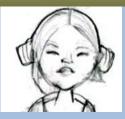
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Conclusions



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25

Children 8 Youth

Qualifying for a job

> Skills development

How will schools meet future learning needs?

Personalised Learning
Institutional Flexibility
Investing in Teacher Training

How can demand & supply of skills be matched?

Anticipate change
Dialogue with industry and other stakeholders
Enable citizens to adapt and develop

How can people continuously update their skills?

Take responsibility for your learning & career path Make use of various and versatile ICT tools Certification of informally acquired skills





