

**Accelerating Educational Change** 

Evaluating the development of the 'ability to innovate' within teacher training institutes
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### **Presentation overview**



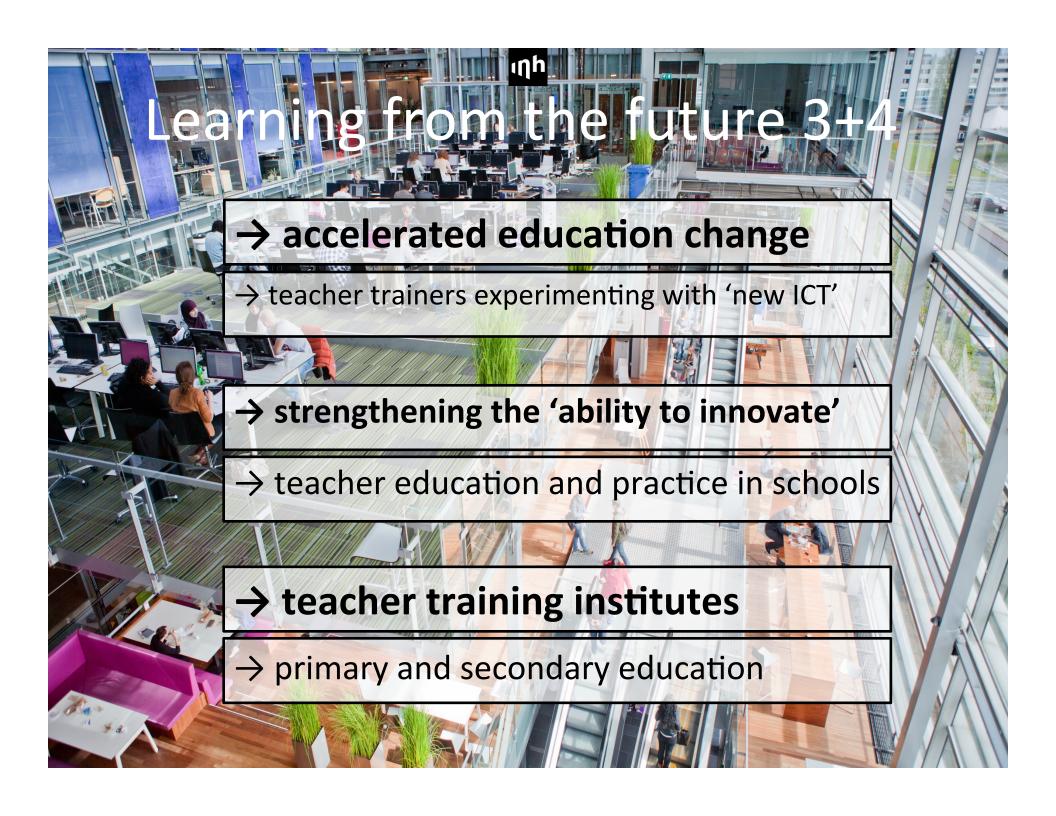
Short introduction to the Kennisnet projects Learning from the Future 3 + 4

Goals, main question & structure of both studies

The 'ability to innovate' model

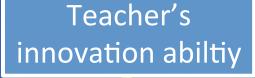
Overview, results and key conclusions

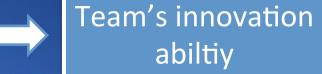
Reflection and recommendations



# Goal of the evaluation research

- → experiences with, and appreciation of, the innovative use of ICT
- → project's effect on the ability to innovate





Faculty's innovation abiltiy

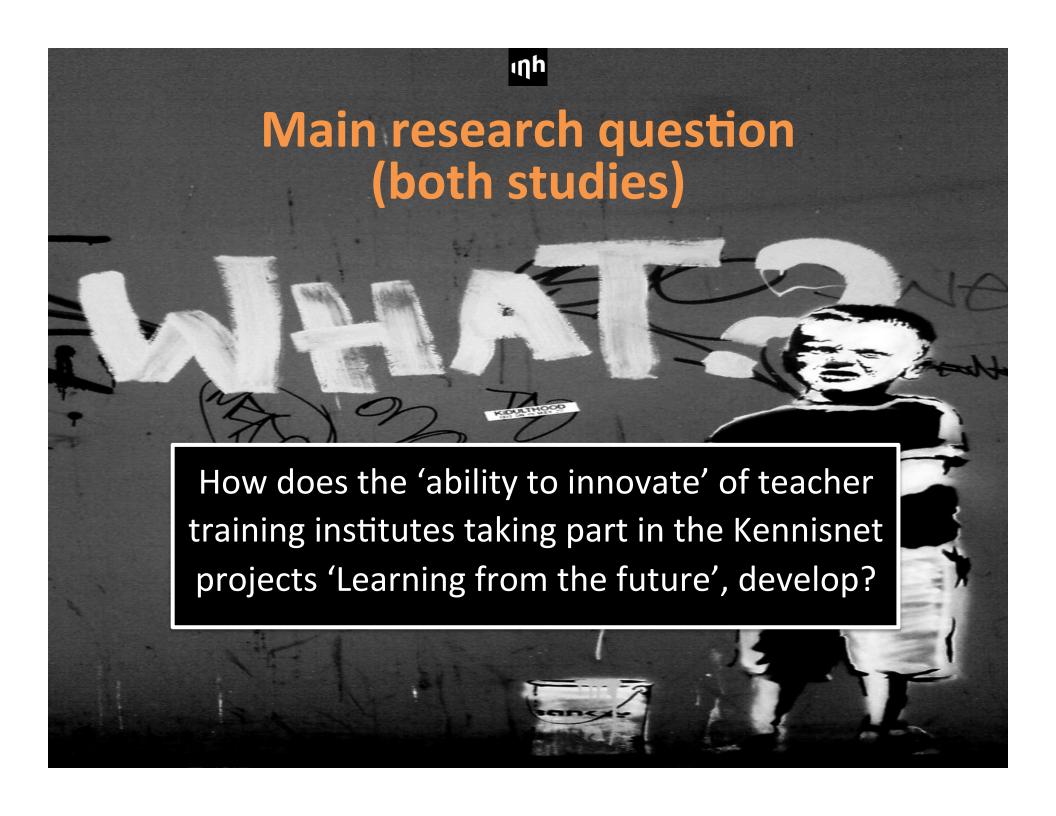




Student's innovation ability

'Trainees' innovation ability

Institution's innovation ability





### Design of the evaluation research (study 1)

developing an 'ability to innovate' model based on theory → instrumentation

participants → participating teachers and students + non-participating teachers

participating teachers

Individual interviews [8]

participating students

Focus group
[4 participants]

non-participating teachers

Focus group [5 participants]

Transcripts of all voice recordings → analysis and interpretation of the data

### Design of the evaluation research (study 2)

developing an 'ability to innovate' model based on theory → instrumentation

participants → participating teachers and students + non-participating teachers + other stakeholders

participating teachers

Focus group [8 participants]

participating students

Focus group
[4 participants]

non-participating teachers

Focus group
[4 participants]

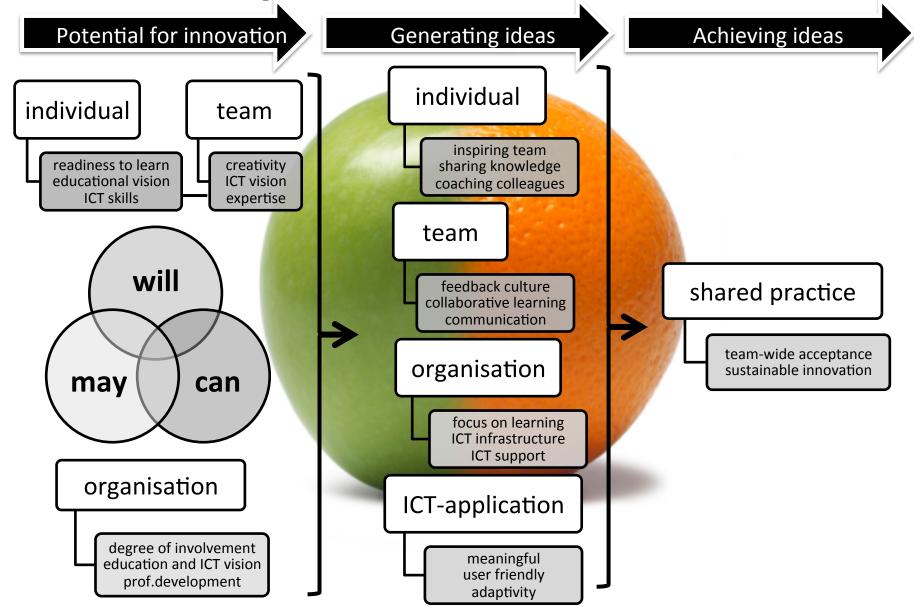
managers and trainers

interview
[4 participants]

Transcripts of all voice recordings → analysis and interpretation of the data



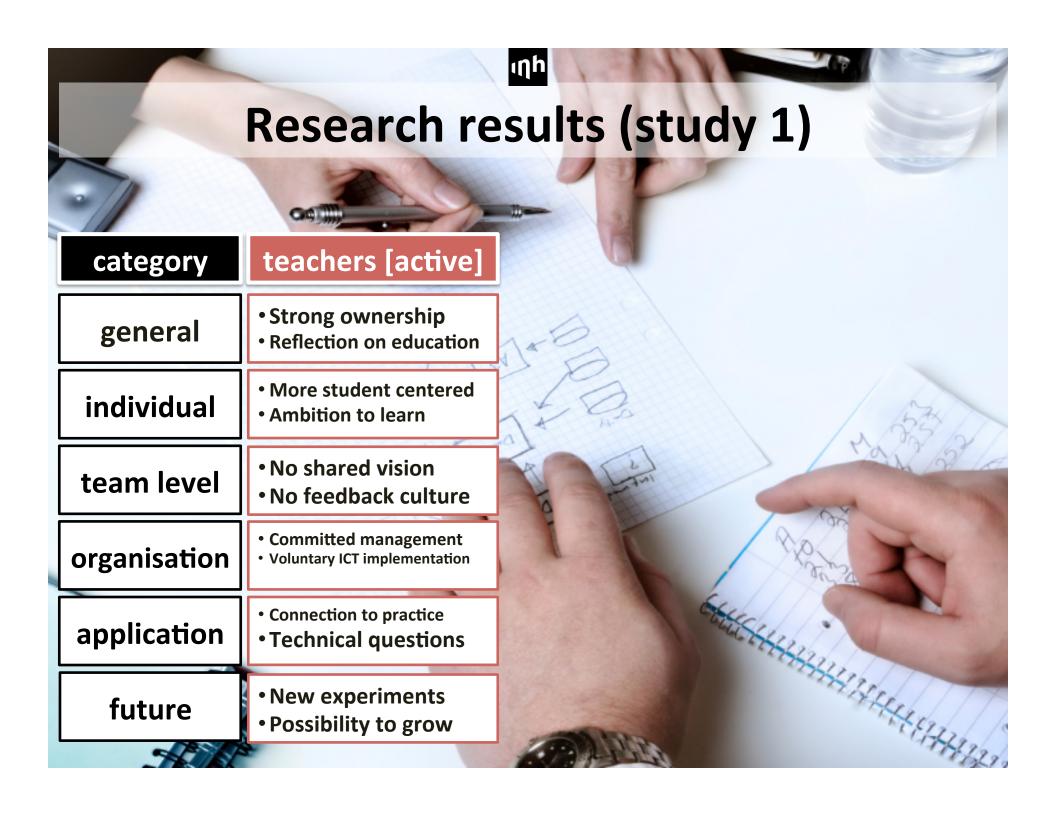
# 'ability to innovate' model





# Research results (study 1)

1	category	teachers [active]	students	teachers [other]
	general	• Strong ownership • Reflection on education	• Very motivated • More involved	• Colleagues were inspired • No active involvement
	individual	• More student centered • Ambition to learn	Big differences skills and visions teachers	• Connection to practice • Own ICT skills
	team level	• No shared vision • No feedback culture	• No shared vision • Varied view on ICT use	<ul><li>No shared vision</li><li>Did not learn much</li></ul>
	organisation	Committed management     Voluntary ICT implementation	<ul><li>Doubts about policy</li><li>Help desk is fine</li></ul>	<ul><li>Facilitated teaching</li><li>Adjusted ambitions</li></ul>
	application	• Connection to practice • Technical questions	• Teachers grew • User-friendliness	<ul> <li>Relationship to needs</li> <li>Relationship to practice</li> </ul>
	future	<ul><li>New experiments</li><li>Possibility to grow</li></ul>	• Differences in team • Concerning primary schools	<ul><li>Take sufficient time</li><li>External support</li></ul>
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### Sub conclusions (study 1)

#### group

#### sub conclusions

# teachers [active]

- The project is a powerful instrument to strengthen one's development
- Transfer is only possible when based on a shared vision and strong guidance
- Time available to experiment with ICT is a deciding factor
- Support from Kennisnet was important, but temporary

# students [active]

- Project contributed to gaining insight into own innovation potential
- Effect of project is visible mainly for teachers actively involved
- Management needs to encourage teachers to experiment with ICT
- Involve the primary schools; they are an important stakeholder

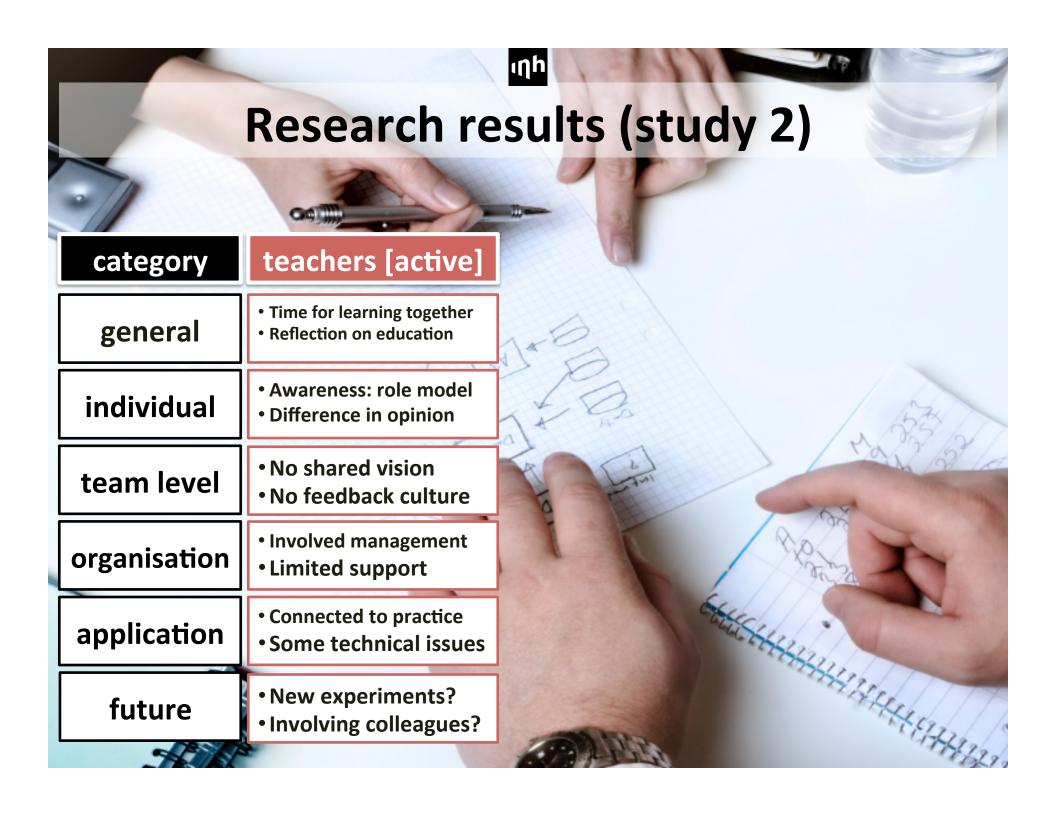
# teachers [other]

- A shared vision on educational use of ICT must be starting point
- Limited ICT skills and minimal trust are potential risks
- Support through Kennisnet is also necessary for the follow up
- ICT innovation in small steps in a small scale context is preferred



# Research results (study 2)

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category	teachers [active]	students	teachers [other]
general	Time for learning together     Reflection on education	• Very motivating • ICT skills	• Getting to know ICT • Share even more knowledge
individual	<ul><li>Awareness: role model</li><li>Difference in opinion</li></ul>	• Large differences • Know the limits	• Not experimenting • Own ICT skills
team level	<ul><li>No shared vision</li><li>No feedback culture</li></ul>	• No shared vision • expertise unused	<ul><li>No shared vision</li><li>Not enough exchange</li></ul>
organisation	<ul><li>Involved management</li><li>Limited support</li></ul>	• Doubts about policy • ICT use too voluntary	• Stimulates ICT • Good project leader
application	• Connected to practice • Some technical issues	<ul> <li>Relationship to practice</li> <li>ICT situation in practice</li> </ul>	More effective education     Use experienced teachers
future	<ul><li>New experiments?</li><li>Involving colleagues?</li></ul>	• Differences in team • Also in practice	<ul><li>Possibility to grow</li><li>Use the innovators</li></ul>
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### Research results (study 2) (continued)

### category

#### managers and trainers

general

- Targeted approach to innovation achieved
- Attitude teachers to use ICT changed

individual

- Large differences in opinions teachers
- More contribution to development curriculum

team level

- Development of vision at organisation level
- Variety of formal/informal exchanges

organisation

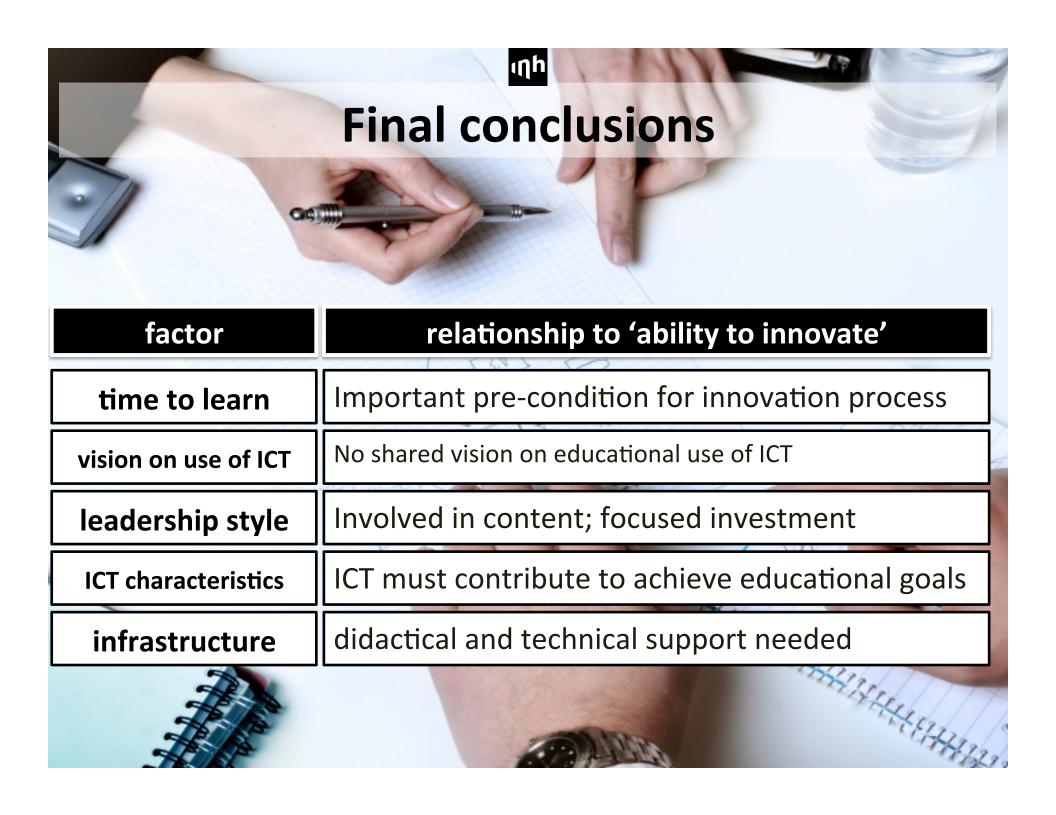
- PM positive about leadership management
- Kennisnet supported PM and manager

application

- ICT can also support working more efficiently
- Adjusted to different contexts of the users

future

- Start new experiments
- Targeted approach of the project





## Reflection on research results

Project approach created distance between groups

Can/want/may plays a role at the individual level

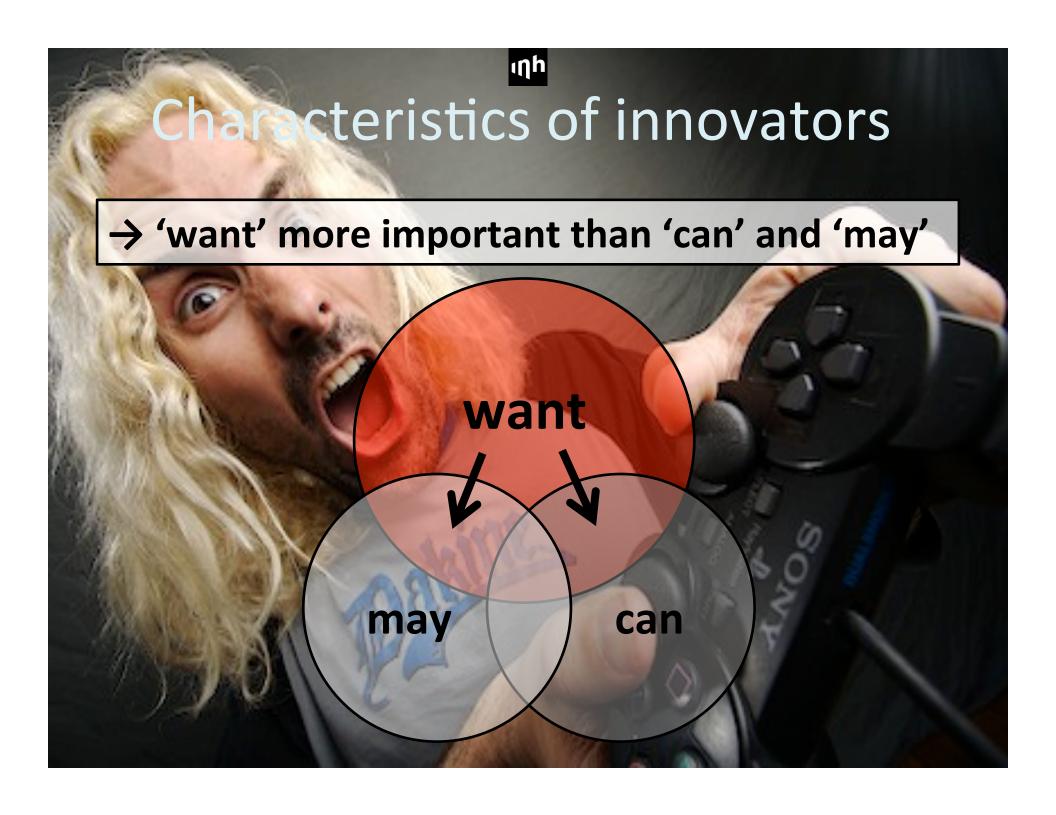
If ICT implementation is voluntary, 'ability to innovate' reduces

Collaborative learning makes innovation more likely

Lack of feedback culture limits learning process

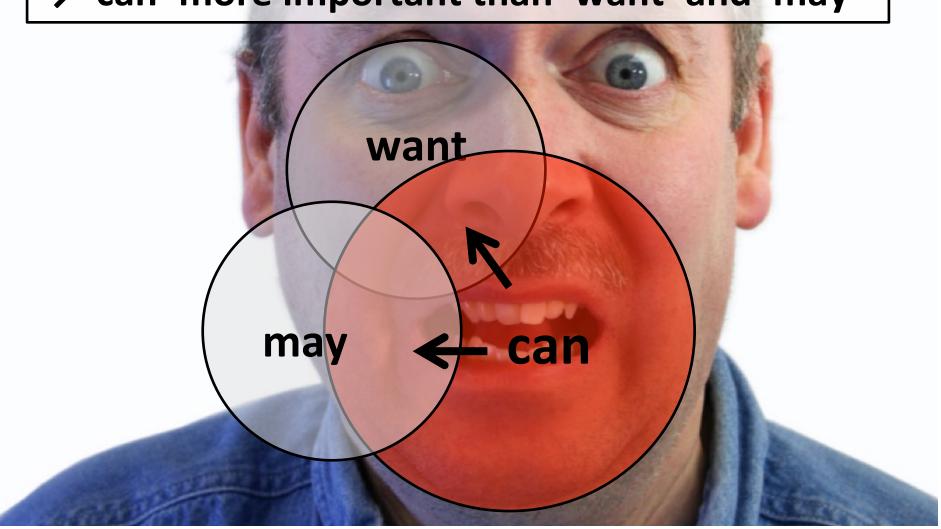
Management needs to guide innovation process

Potential for innovation in teacher training institutes has grown



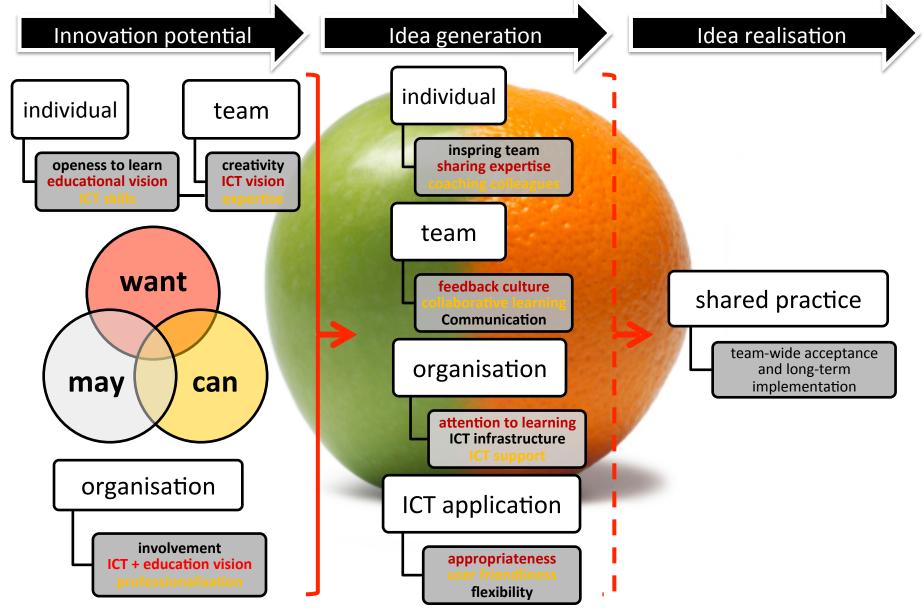


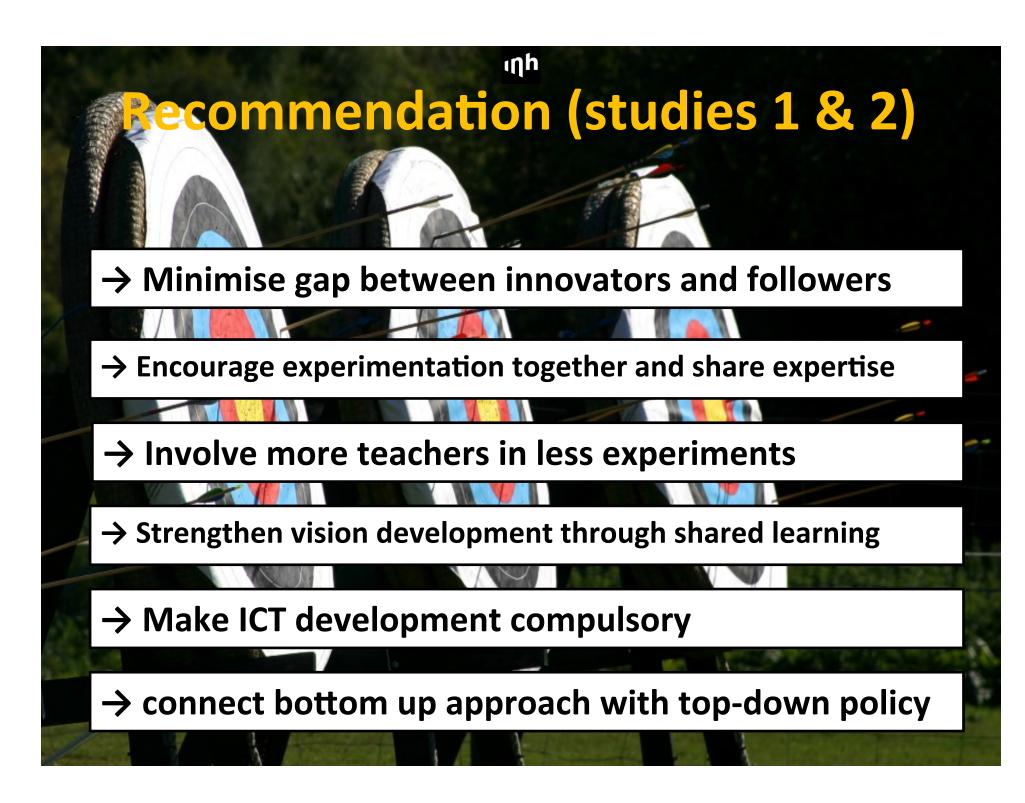
→ 'can' more important than 'want' and 'may'





## Reflection on 'ability to innovate'







### Questions?

