Microsoft in Education

Date: 16th June 2011
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Title: School Technology Innovation Center Manager

Microsoft®
Partners in Learning

Microsoft®

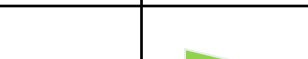# A Vision for Education

Corporate Mission
Microsoft helps individuals and businesses realize their full potential

Education Vision
Empower people to realize their social and economic potential by enabling access to quality education experiences for all through technology

The Power of Learning

Traditional Learning	21st C Learning
Teacher Centered	Student Centered
Single Media	Multimedia
Isolated Work	Collaborative Work
Information Delivery	Information Exchange
Factual, Knowledge-Based Learning	Critical Thinking and Informed Decision Making
Push	Pull
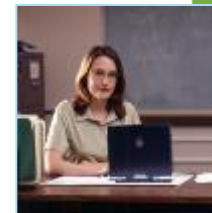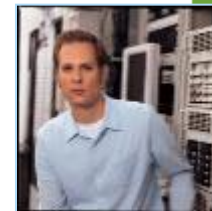
Source: ISTE National Education Technology Standards for Teachers (USA).

The Learning Process

Apply in an creative way

Memorize

Understand
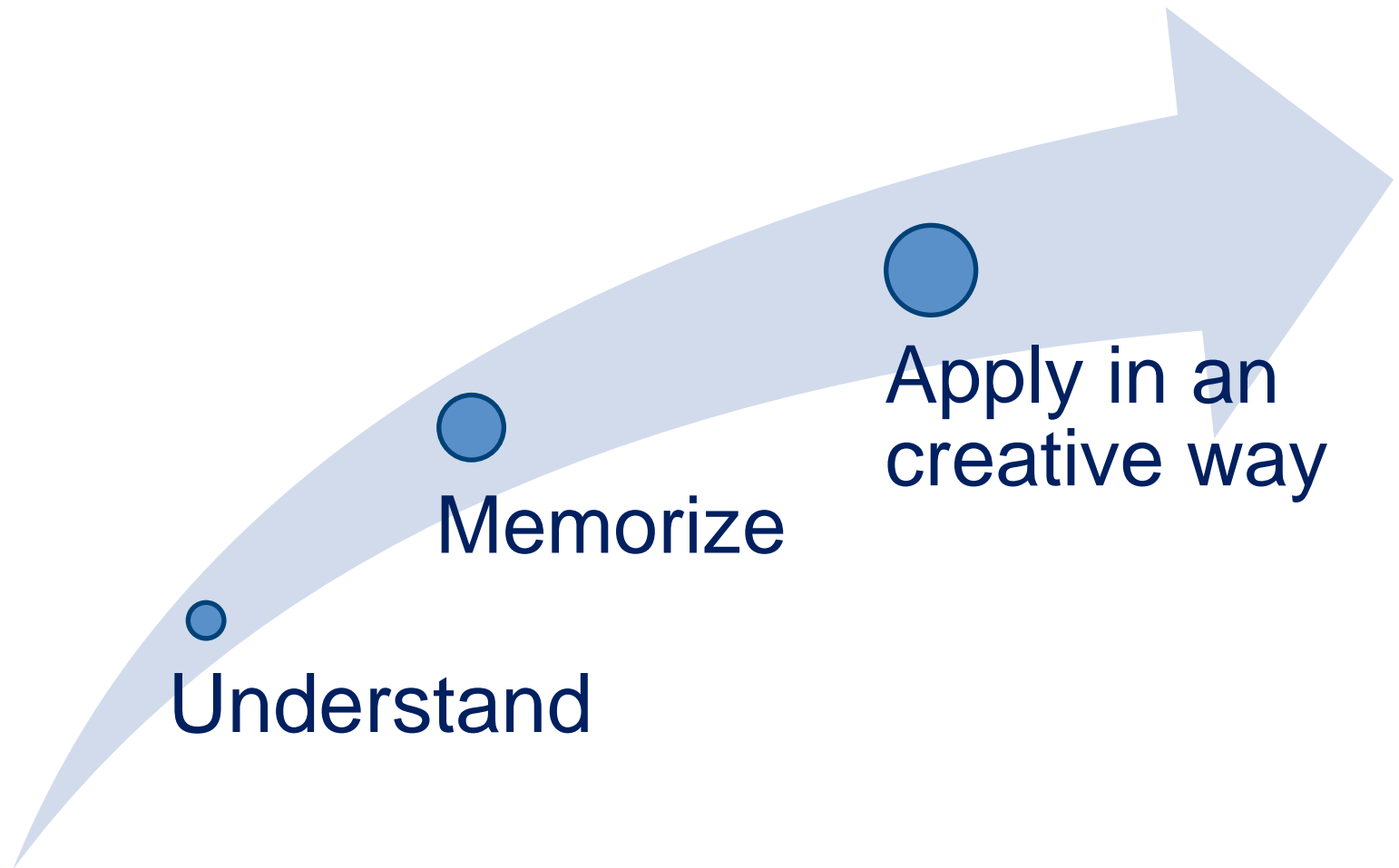
EU 2020 Strategy

Growth

Smart   **Sustainable**   **Inclusive**

EU 2020 Goals

1. **Innovation Union**
2. **Youth on the move**
3. **A Digital Agenda for Europe**
4. **Resource Efficient Europe**
5. **An Industrial Policy for the Globalization Era**
6. **An Agenda for new skills and jobs**
7. **European Platform against Poverty**

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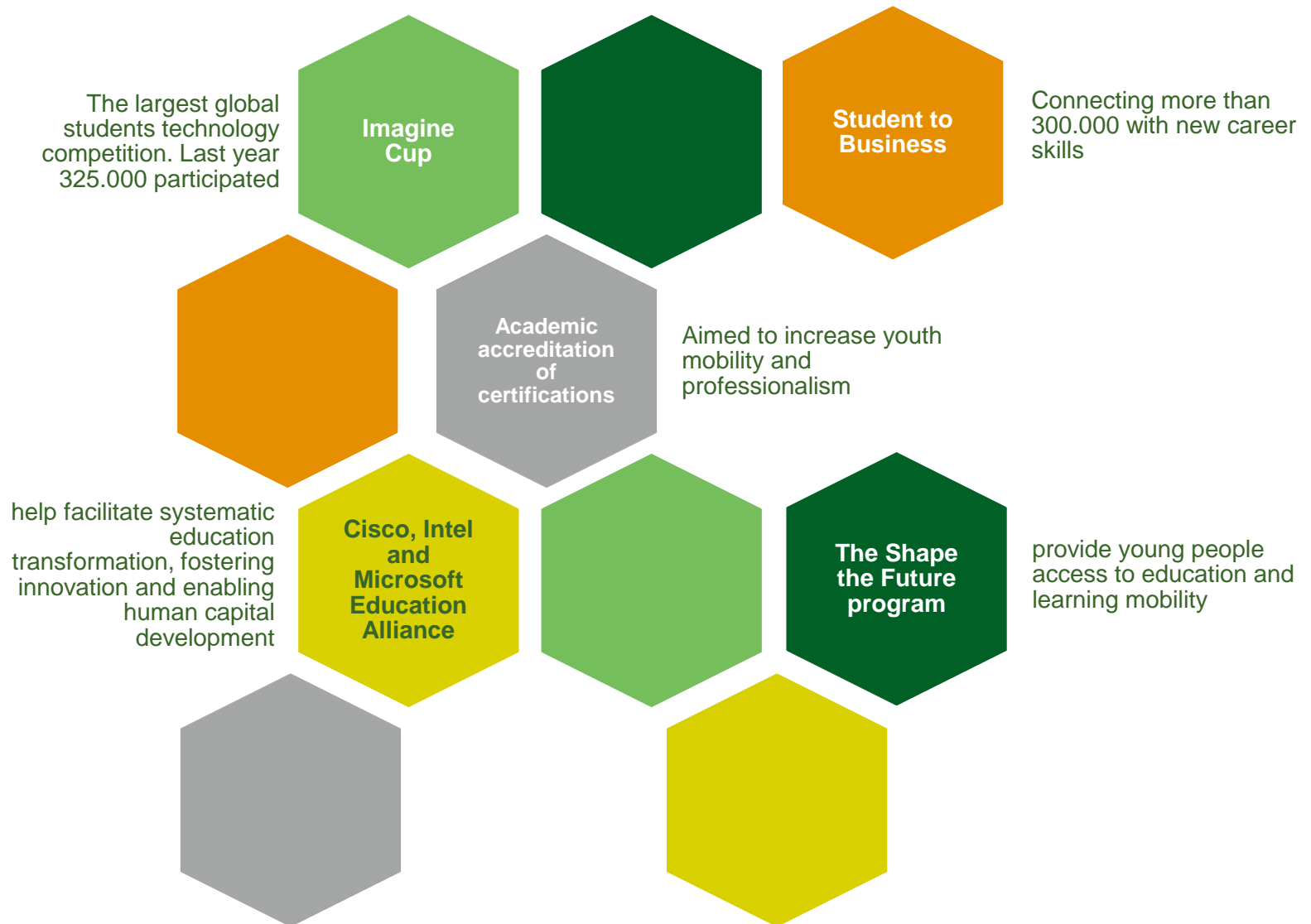6. **An Agenda for new skills and jobs**
7. **European Platform against Poverty**

Youth on the move

The largest global students technology competition. Last year 325.000 participated

Imagine Cup

Student to Business

Connecting more than 300.000 with new career skills

Academic accreditation of certifications

Aimed to increase youth mobility and professionalism

help facilitate systematic education transformation, fostering innovation and enabling human capital development

Cisco, Intel and Microsoft Education Alliance

The Shape the Future program

provide young people access to education and learning mobility
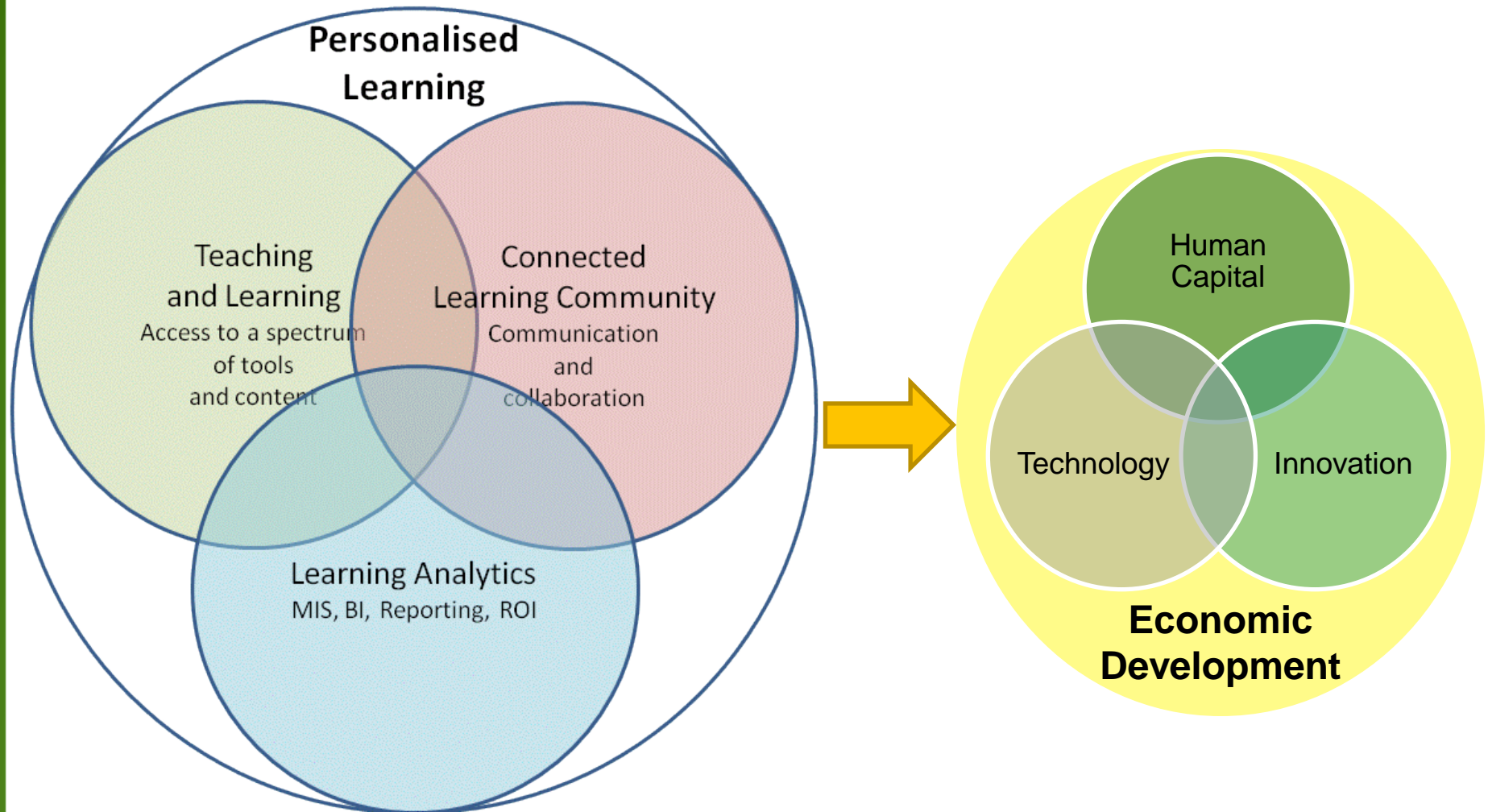
An Agenda for new skills and jobs

Skilling students for the labor force

- **Need for 21st Century Skills:**
  - Innovative Schools Program
  - Project based curriculum
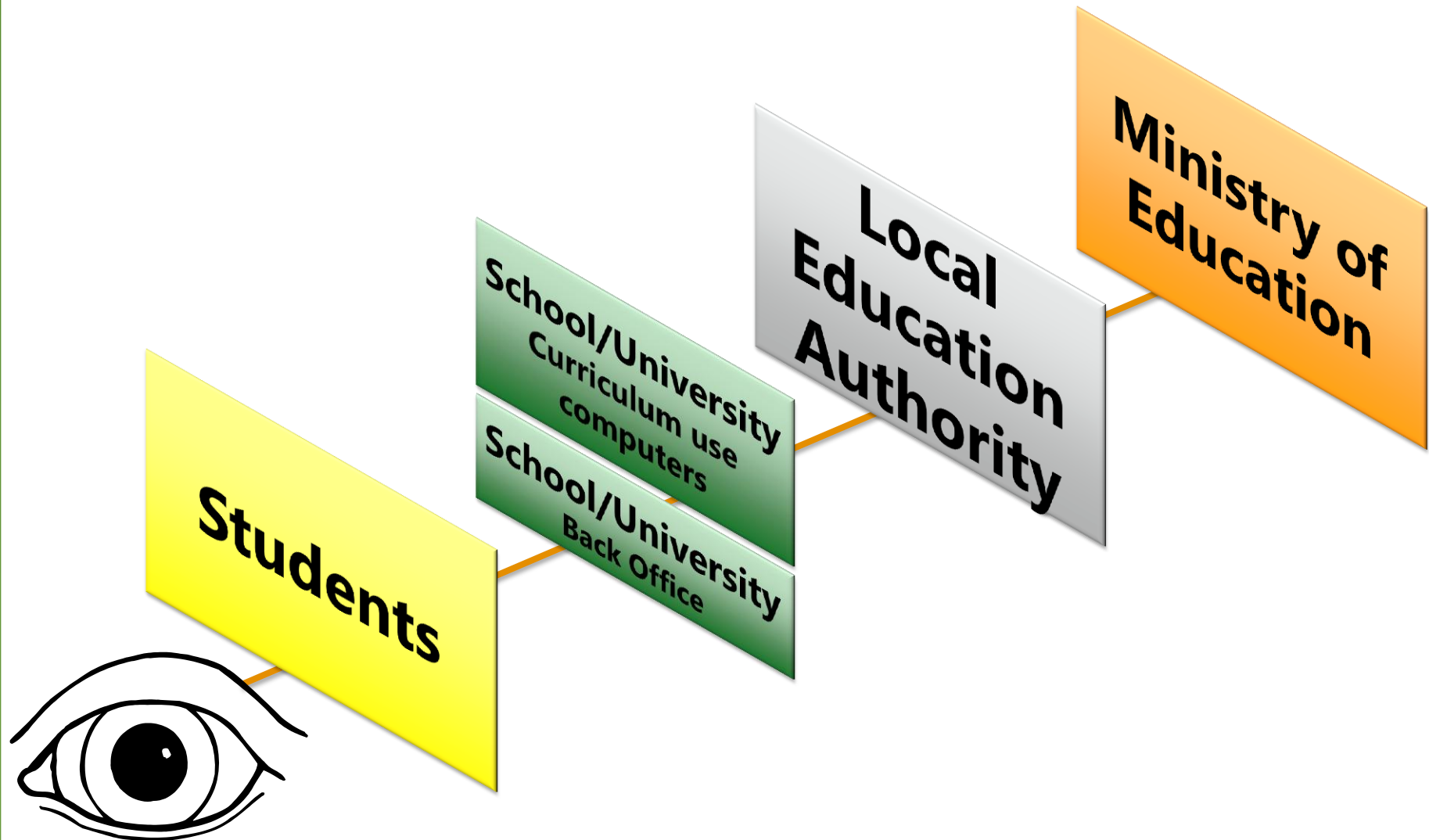 - Teacher communities

Re-skilling the labor force

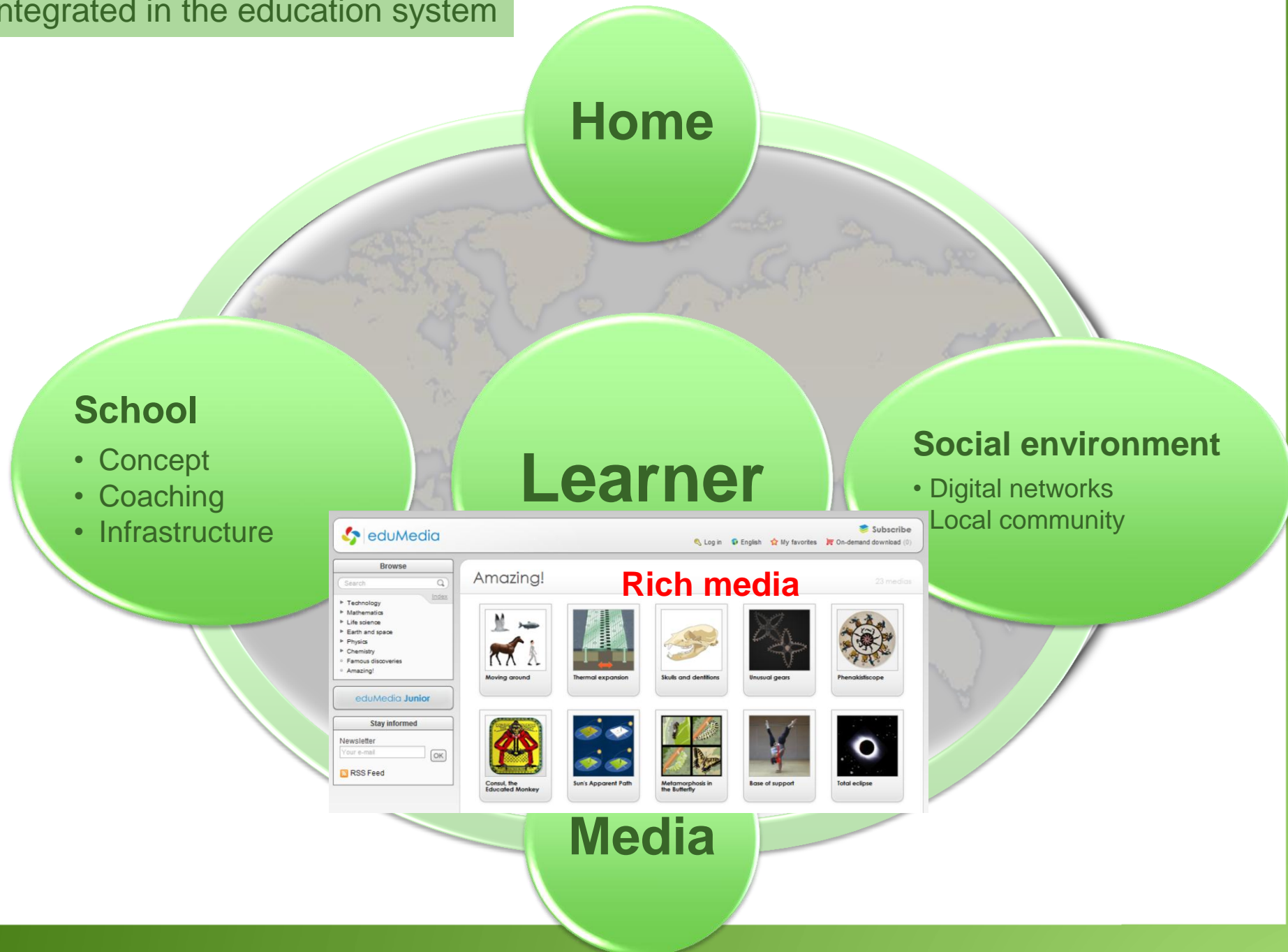- **Need for IT Skills:**
  - IT Academy
  - WW acknowledged certifications
  - Academic accreditation

Personalized learning – a global integration of new technology enables a new education system

Learning Analytics – a Clear Line of Sight

Home

School
- Concept
- Coaching
- Infrastructure

Learner

Social environment
- Digital networks
Local community

Rich media

Media

Home

School
- Concept
- Coaching
- Infrastructure

Learner

Social environment
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- Local community

SKOOLMate
Vet Cool van Skool
SkoolMate.eu >

Media

A range of **affordability** scenarios are available to broaden access to educational computing

Choice of devices and user ratios

1:1
One device per student

Shared
Computer Labs

1:Many
MultiPoint™
Thin Client

Cost per user

Choice of business model, such as: *Subsidized, Subscription, Financed*

Home

ELEARNINGFORCE

Virtual Learning Environments and Rapid Authoring Tools for custom eLearning

SharePointLMS | E-Portfolio | WebParts for SharePoint

School

- Concept
- Coaching
- Infrastructure

Learner

Social environment

- Digital networks
- Local community

Talking to students

Talk
PC control
Screen con

Student appli
Web brow
Video stre
White boa

Messages
Chat

⏻ Shut down operations

🔒 Lock PC
Lock screen
Lock keyboard and mouse

📁 Launch program
Disable internet

Media

Learning Management System (LMS) ELearningforce

One secured environment for all digital learning activities

Based on SharePoint

Structured Learning Path including SCORM Player

Shared Course Materials Repositories

Advanced Quiz Tool for Assessments including Certificates

Assignments with Anti Plagiarism checking

Assignments with 'Single Action' Grading and Workflow

Virtual Class Room using Live Meeting Office Communication Server

Web Parts for Announcements, Calendar, Assignments etc.

Grade Book recording and Reports of all Quiz Results, SCORM Learning Objects as well as overall time.

User Authentication via Active Directory or Forms Based Authentication.

The Learners' Digital World: integrated in the education system

Home

Learner

School
- Concept
- Coaching
- Infrastructure

Social environment
- Digital networks **Live@edu**
- Local community **Office 365**

Media

Home

School
- Concept
- Coaching
- Infrastructure

Learner

Social environment
- Digital networks
- Local community

Media

Assistive Technology – Accessibility examples for difficulties, impairments and dysfunctions …
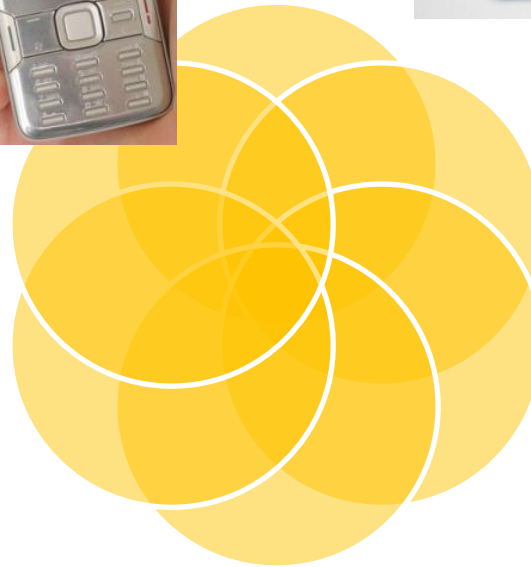
Vision

Dexterity

Aging

Language and Communication

Learning

Hearing

Example – Sweden
Basics of personalized learning

Education matching the learner - not the learner matching education

Expand the curriculum and de learning domains

Developing intelligence, knowledge, competences and skills

Making choices – sooner but adjustable

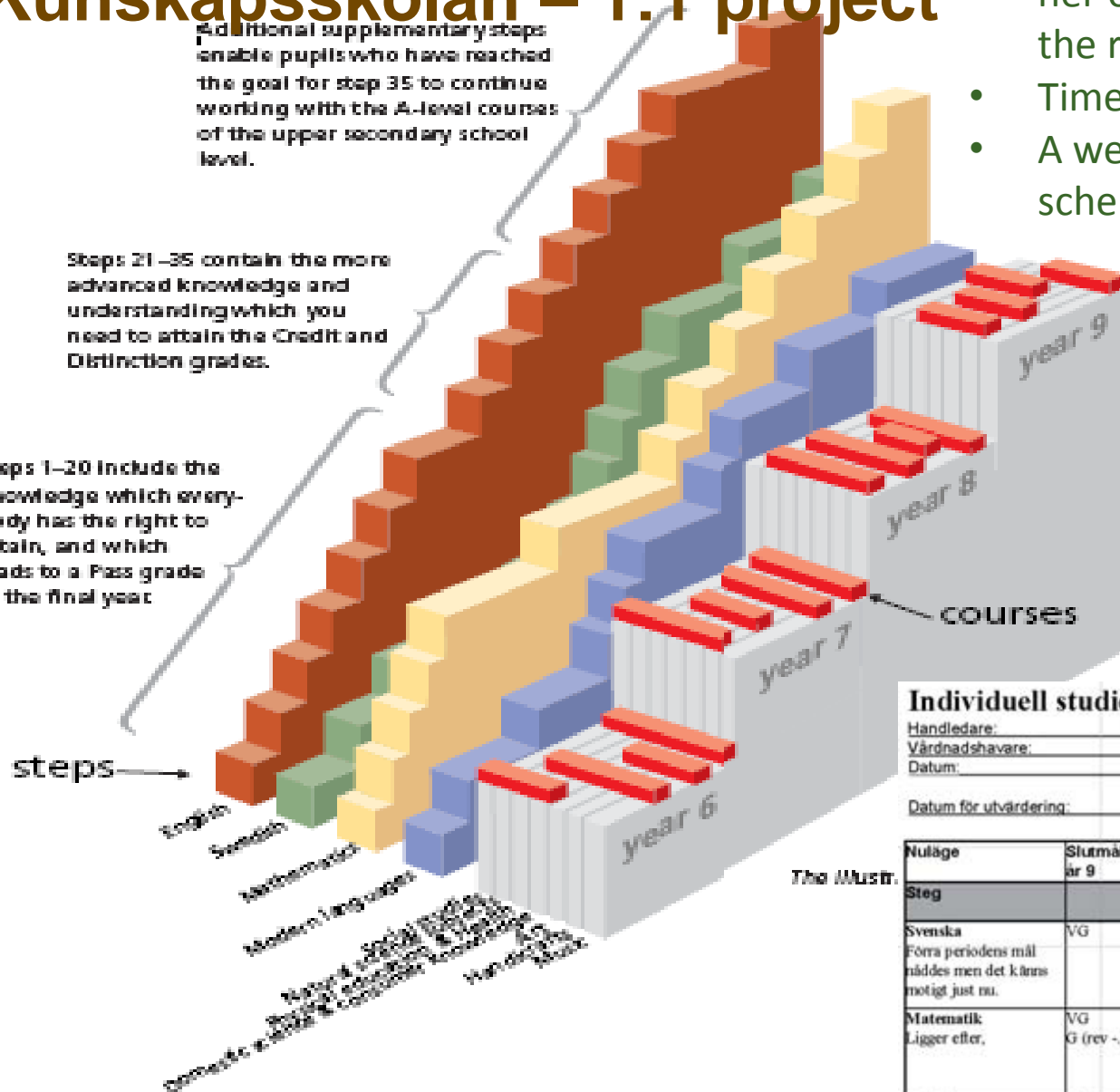The learner in the center of education

Example – Sweden
Kunskapsskolan – 1:1 project

- The learner gradually creates her or his way of learning and the roadmap
- Time related projects
- A weekly adaptable lesson scheme

Additional supplementary steps enable pupils who have reached the goal for step 35 to continue working with the A-level courses of the upper secondary school level.

Steps 21 –35 contain the more advanced knowledge and understanding which you need to attain the Credit and Distinction grades.

Steps 1–20 include the knowledge which everybody has the right to attain, and which leads to a Pass grade in the final year

Each course has a theme which weaves together several subjects.

In each course, you choose between three levels of achievement – the blue, red or black route.

year 9

year 8

year 7

year 6

courses

steps

English
Swedish
Mathematics
Modern languages
Natural / social study
Physical education / health
Domestic science / technology / computer knowledge
Handicraft
Music
Art

The illustr.

Individuell studieplan för: _____

Handledare: _____
Vårdnadshavare: _____
Datum: _____

Datum för utvärdering: _____

Nuläge	Slutmål år 9	Termins mål	Strategier för att nå målen	Utvärderi
Steg				
Svenska Förra periodens mål nåddes men det känns motigt just nu.	VG	14	(Sammanhängande tid (Läsa skönlitteratur (Arbeta ensam	
Matematik Ligger efter.	VG G (rev -.)	10	(Arbeta tidigt på dagen (Dagsmål! (Lärarstöd – gå på alla WS	Målet nått, användes c
Engelska	VG	12	(Se filmer m engelsk text (Gå på alla WS	

Example - Denmark

Maglegårdsskolen
100 years old – strong in innovation

HELLERUP. Maglegaardsskolen

Example - Denmark

Complete re-design of the building and the learning concept

Achieving the national goals

Innovation in collaboration with the local government

Classes and teachers are grouped

Individual approach

Supported by government and companies

ICT is the main catalyst

The teacher
Monitors the roadmap
Guides the learner
Team player
Shares with colleagues

Learning
Multiple ways of learning
Learn to learn
Challenging
Inclusion
Active learning

Organization
10 small sub-schools
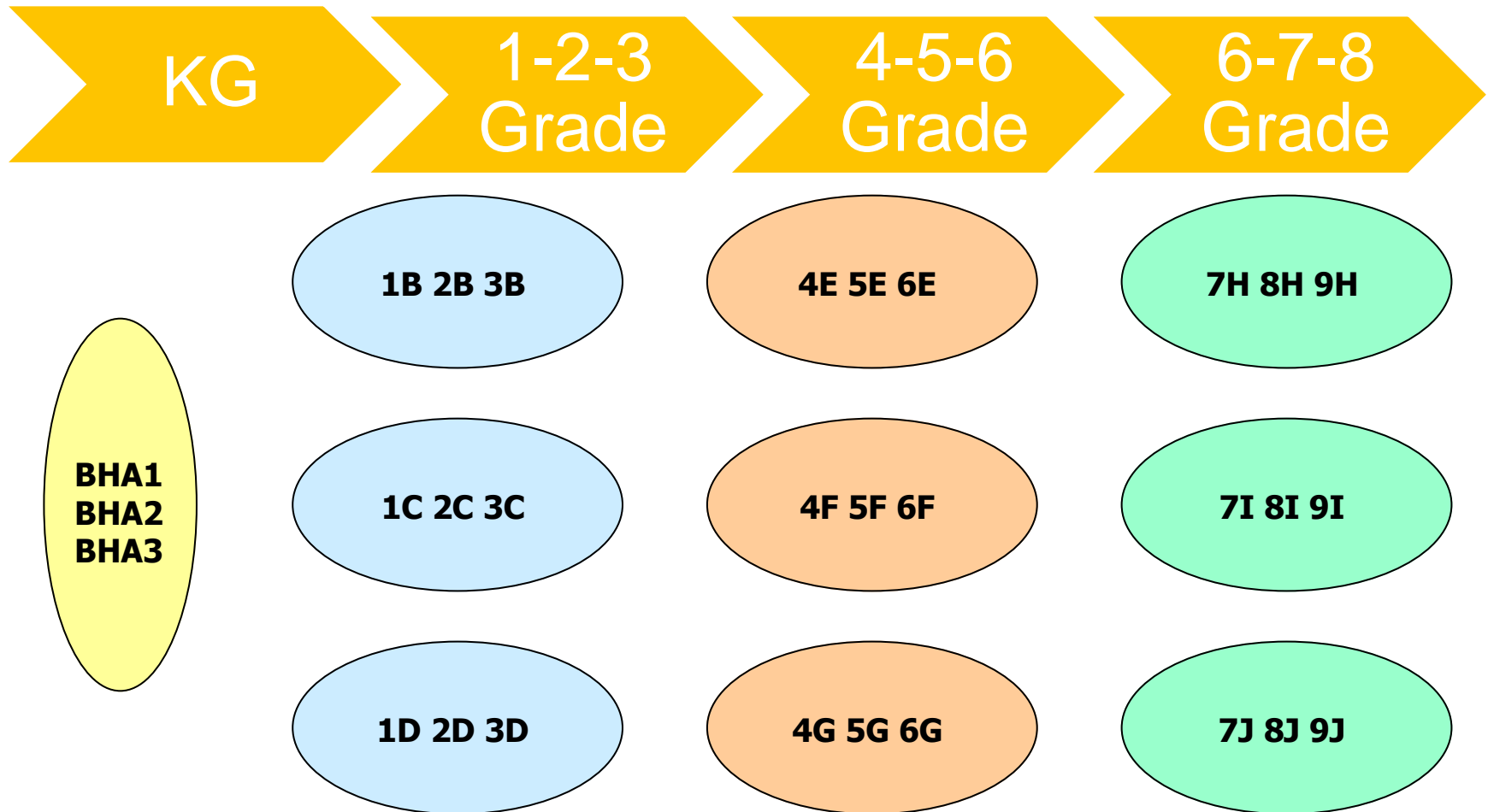Self-management for each sub-school
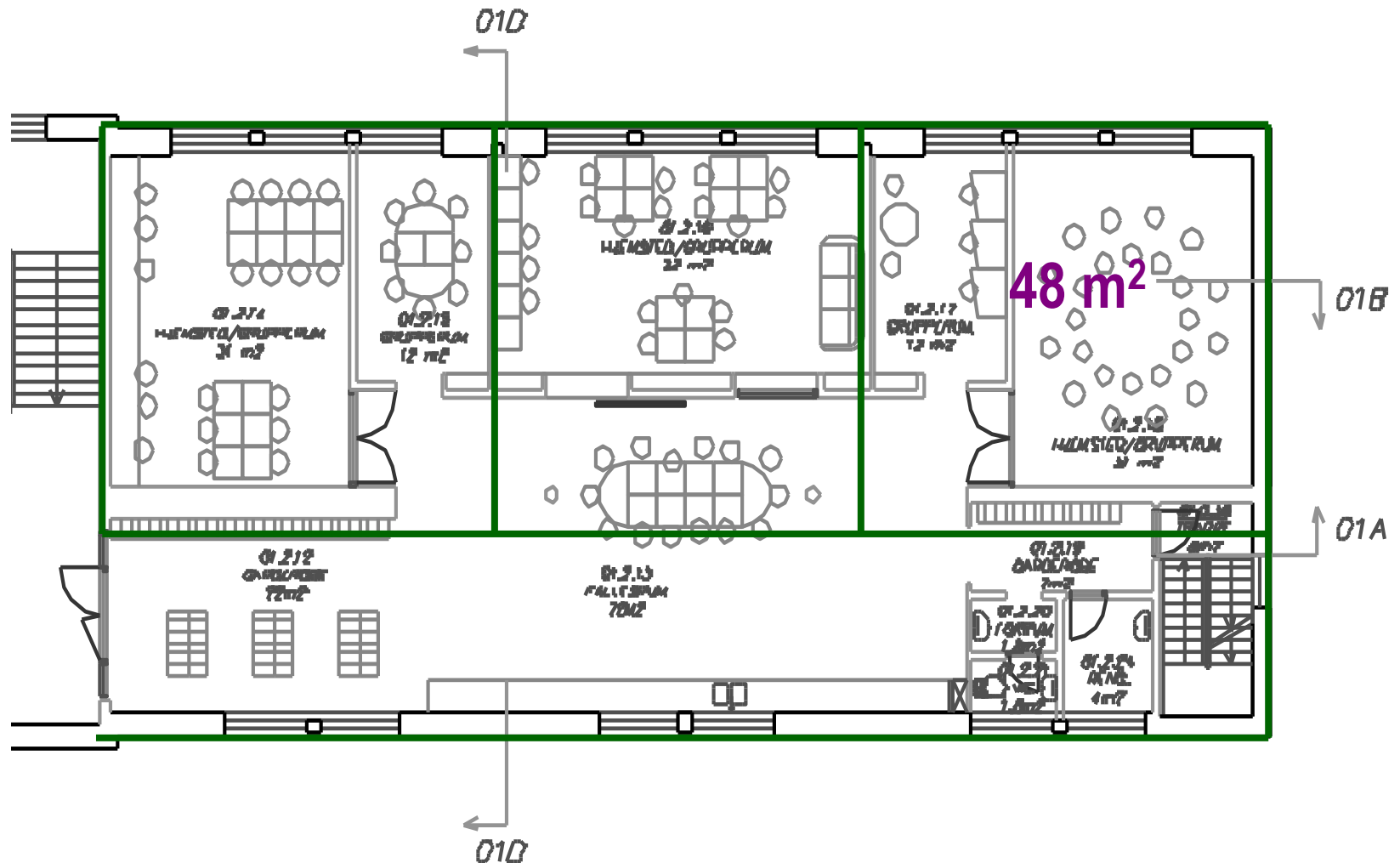3 classes (70-75 students) with 5-7 teachers
in their own physical environment
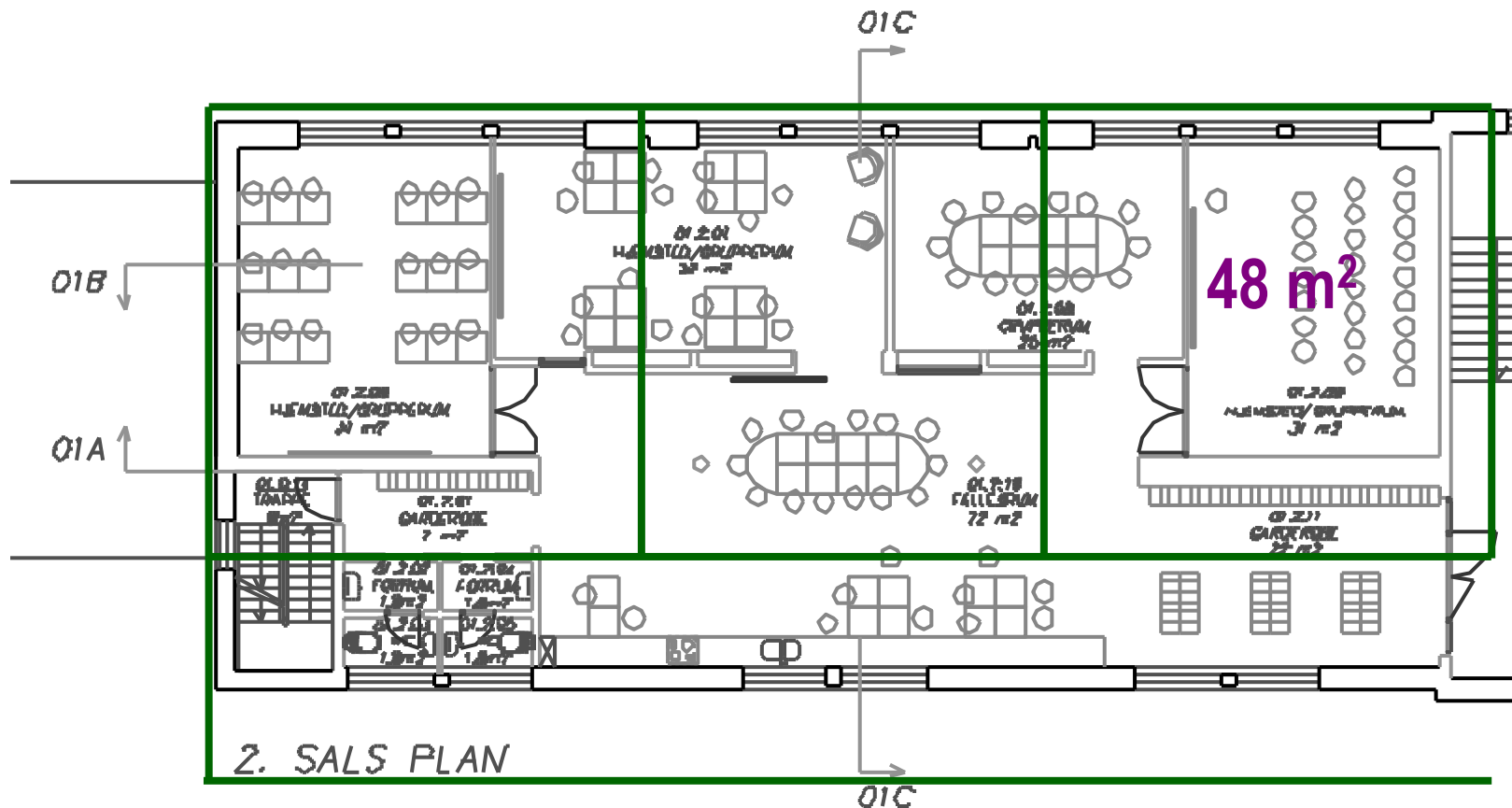
Example - Denmark

10 sub-schools
750 students

| KG | 1-2-3 Grade | 4-5-6 Grade | 6-7-8 Grade |

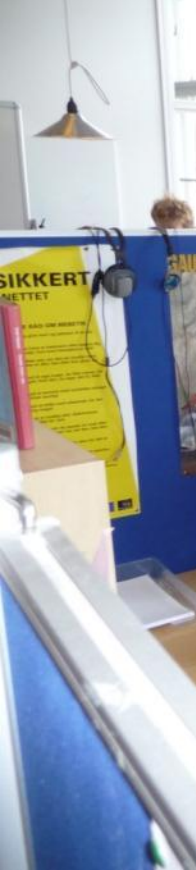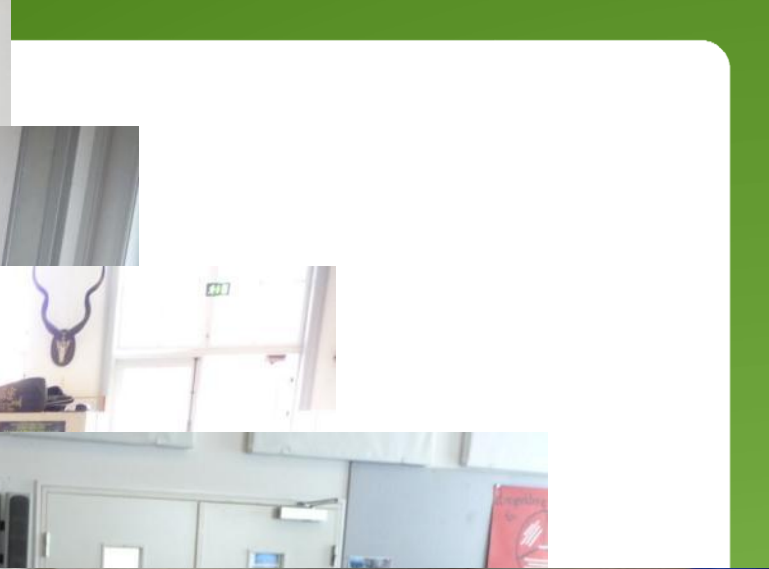| BHA1 BHA2 BHA3 | 1B 2B 3B | 4E 5E 6E | 7H 8H 9H |
| | 1C 2C 3C | 4F 5F 6F | 7I 8I 9I |
| | 1D 2D 3D | 4G 5G 6G | 7J 8J 9J |

Example - Denmark

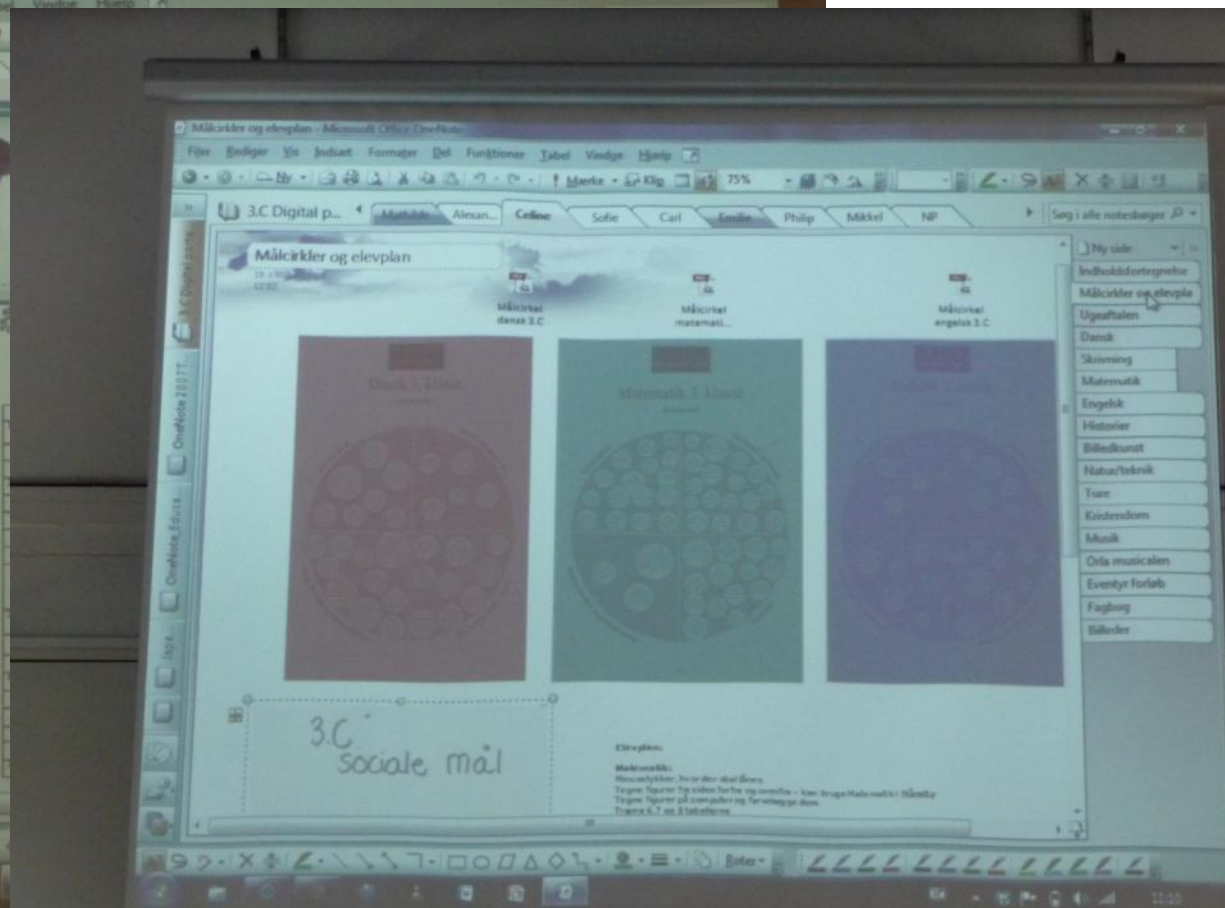Sub-schools, each in an own, modular space

Example - Denmark

Sub-schools, each in an own, modular space

Diverse centralized services:
Media Patrol – Portfolio – ...

Example – Netherlands Dalton schools

Responsibility
Take - give

Accountability
Deliver - ask

Freedom in alignment

Independant

collaboration

Confidence
offer - ask

Example – Netherlands Dalton schools

- A **clear structure**, combined with an ongoing **individual approach**.
- **Involving students** in daily activities, e.g. surveillance – kitchen service,
- The lesson structure consists of three phases**: instruction – individual and/or collaborative** work with diverse approach, e.g. summaries, searches/quests aligned to goals, work sheets, writing a paper… **– a short summary**.
- Students continuously plan their learning,
- **ICT is key**
- The school ensures a **gradual roadmap** helping students to grow to independent **self-regulated learning**.

- **I**nformation

and

- **C**ommunication
- **T**echnology

… in education → (just) a tool !?

Learning ICT is similar to…
learning a mother language

→children cannot learn ICT just by themselves

	Mother language	ICT
	The basis for communication	
Disadvantages of "natural" learning	Regional influences Wrong usage of the language Limited focus: Literature ? Language science ?	Intuitive and partial use Inefficient task solving Limited focus: Games, Chat… Inappropriate behavior
Advantages of dedicated courses	Correct spelling Better communication Broader cultural insight	Correct use Most effective usage Broader insight in all possibilities

Programs & Information

Partners in Learning

- http://www.microsoft.com/Education/PartnersinLearning.mspx

Innovative Teachers

- http://www.microsoft.com/Education/InnovativeTeachers.mspx

Innovative Schools

- http://www.microsoft.com/education/pil/ISc_home.aspx

Innovative Students – Microsoft Student

- http://www.microsoft.com/education/pil/ISt_home.aspx

Learning Essentials

- http://www.microsoft.com/Education/LearningEssentials.mspx

Live@edu

- http://www.getliveatedu.com/

IT Academy

- http://www.microsoft.com/education/msitacademy/default.mspx