

COMMUNICATION SKILLS WITH ICT TOOLS

DR. BEATA JAROSIEVITZ PHD.

COLLEGE PROFESSOR



DENNIS GABOR COLLEGE

Institute of Basic Sciences and Technology, Budapest, Hungary



E-mail: jarosievitz@gdf.hu



Communication Skills with ICT Tools

1. What does communication mean?
2. Communication skills
3. ICT (definition)
4. How should ICT be used ?
5. Possibilities for use of ICT in education
6. Peer instruction
7. Methods to use ICT in education
8. Multimedia definition
9. Multimedia tools ?
10. Use ICT and Multimedia tools ? 11. Conclusions

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Communication Skills with ICT Tools

1. What does communication mean?



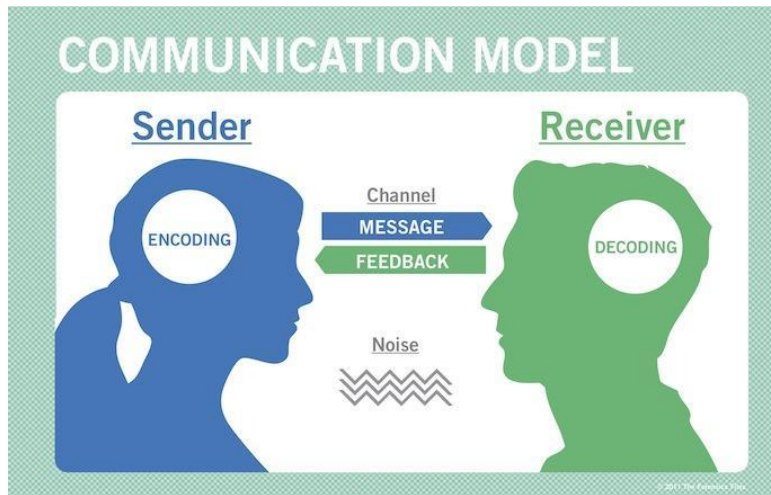
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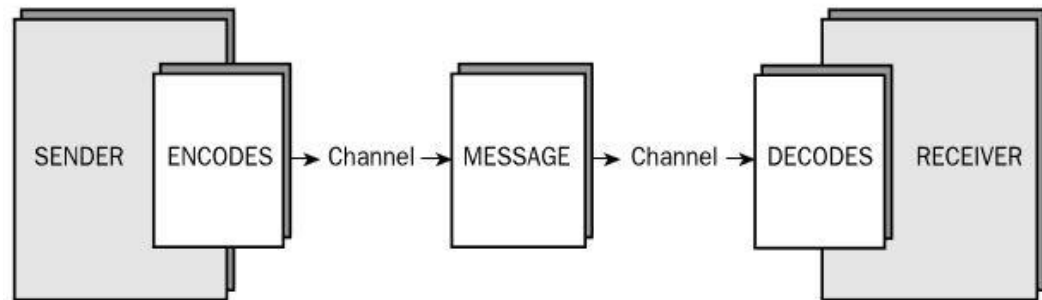
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1. What does communication mean?

- is a **very basic and fundamental process** for human beings
- is the act of sending information or ideas via speech, visuals, writing or any other method.



[Source](#)



The Communication Model

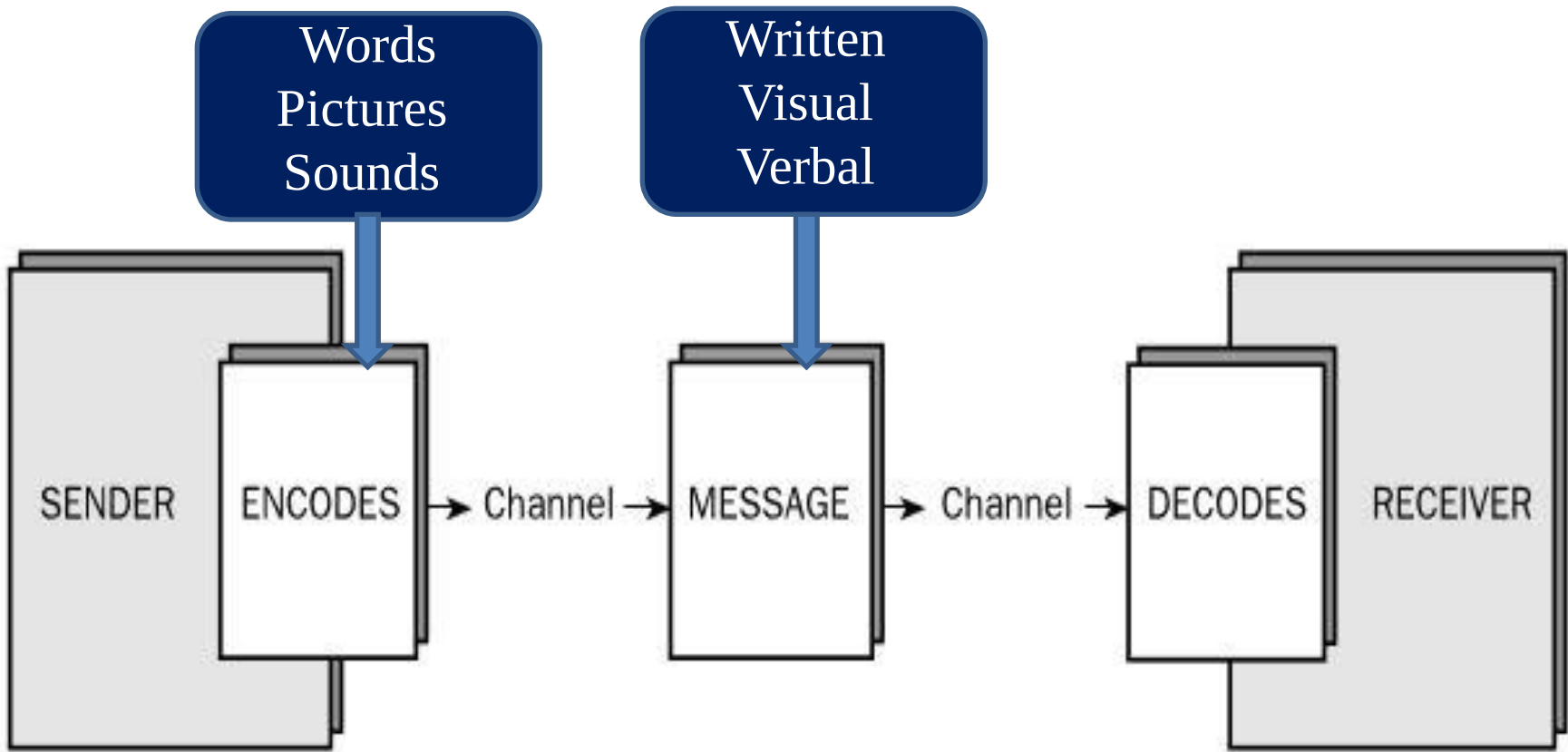
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encoding
reception
transmission
decoding
message



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1.1. Communication model

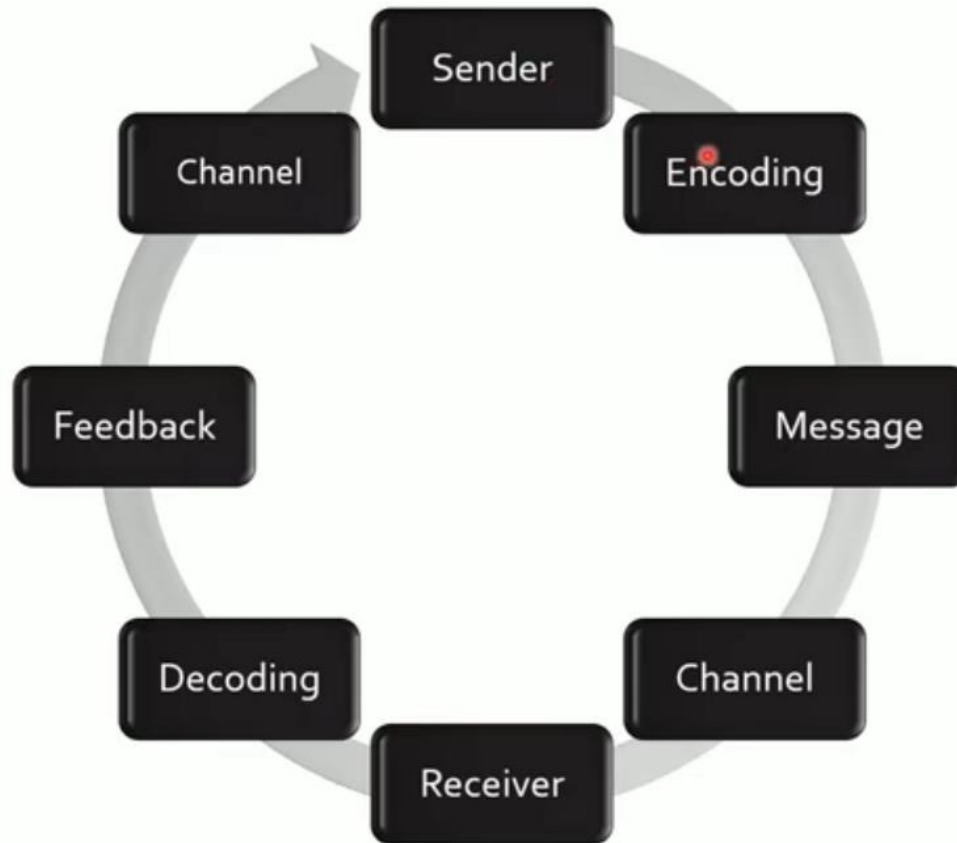


- first major model for communication was introduced by Claude Shannon and Warren Weaver for Bell Laboratories in 1949



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1.2. Communication process



[Source](#)



Communication Skills with ICT Tools

1.3. Communication model

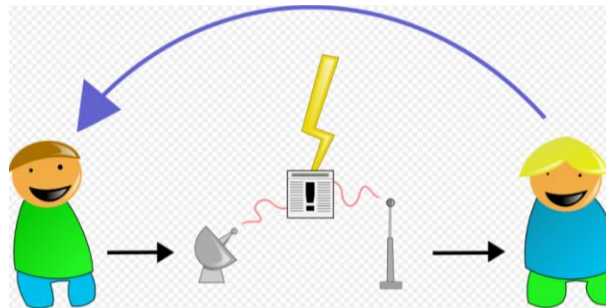
The original model was designed to mirror the functioning of radio and telephone technologies.

- consisted of: **sender, channel, receiver.**

SENDER: part of a telephone - a person spoke into,

CHANNEL: telephone itself

RECEIVER: part of the phone where one could hear the other person.



[Source](#)

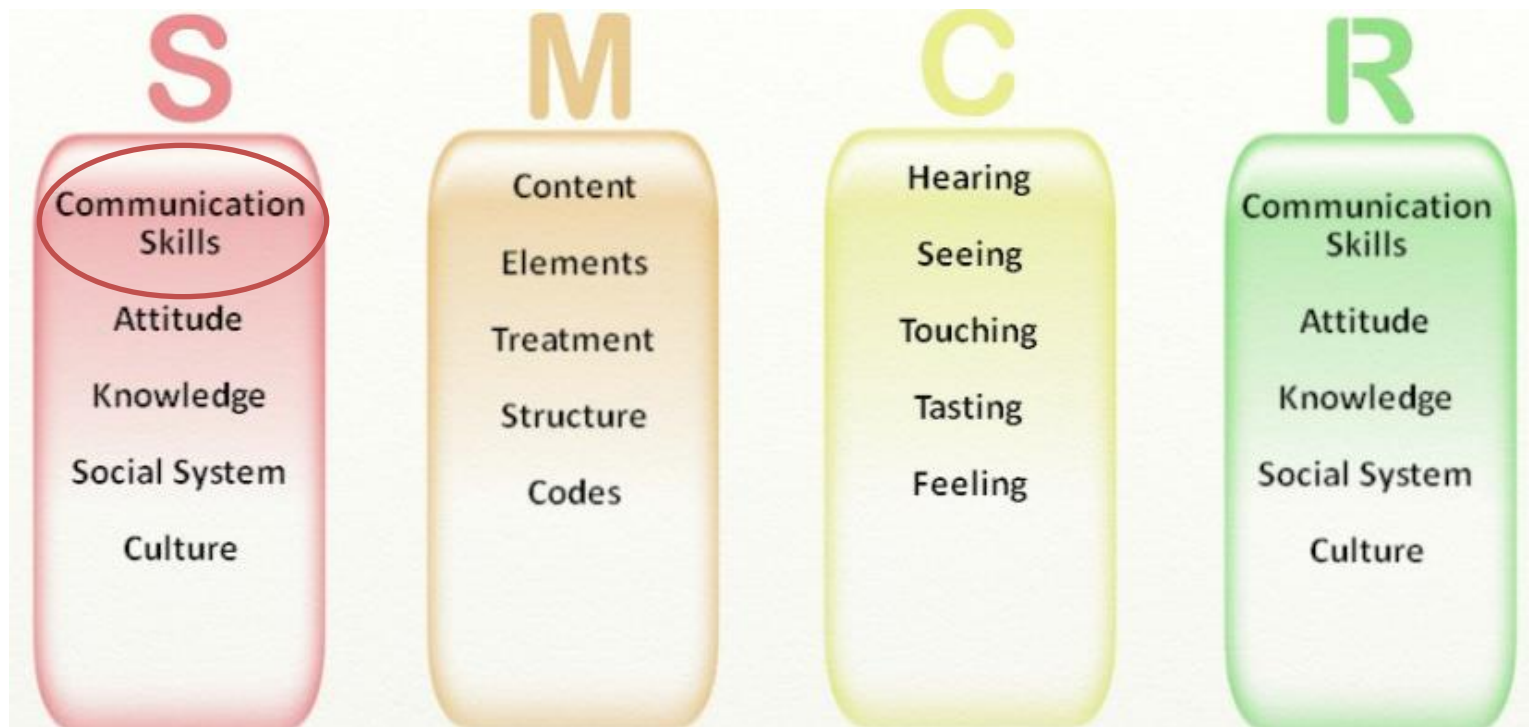
Shannon and Weaver recognized: noise effect.



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1.4. Communication model

- 1960 David Berlo expanded Shannon and Weaver's model of communication and created the SMCR (Sender-Message-Channel-Receiver) model.



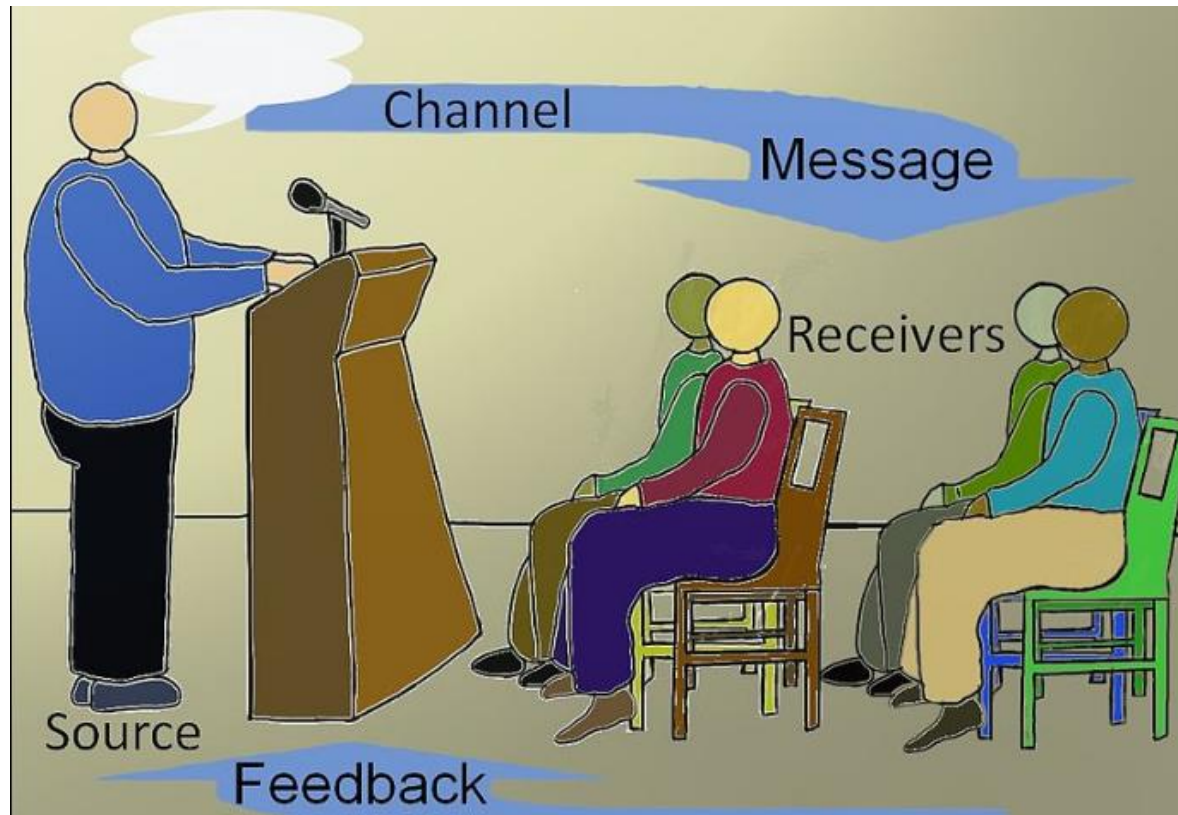
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1.5. Communication model

Transactional model of communication, proposed by Barnlund (2008)



Source



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2. Types of communications

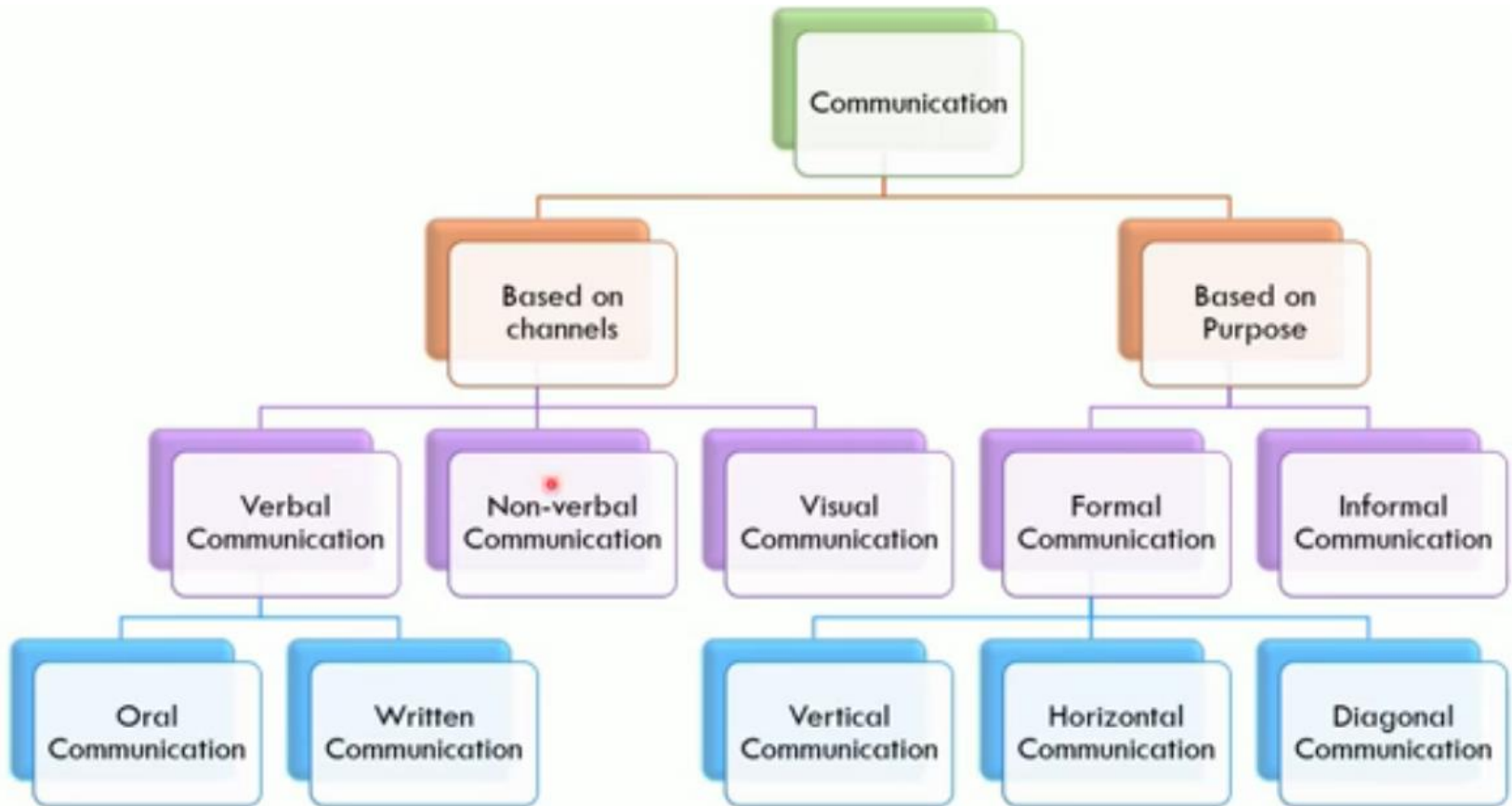


[Source](#)



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2. Types of communications



[Source](#)



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2.1. Types of communication skills



- 1) Verbal Communication
- 2) Non-verbal / Interpersonal communication
- 3) Written Communications
- 4) Formal & Informal
- 5) Visual Communication



[Source](#)



- type of oral communication wherein the message is transmitted through the spoken words.





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2.1.2. Non-verbal / Interpersonal communication

- more than the explicit meaning of words





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2.1.3. Written Communication





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2.1.4. Formal & Informal Communication

Basis	Formal Communication	Informal Communication
<i>Origin</i>	Deliberately Structured	Spontaneous and Unstructured
<i>Nature</i>	Well Planned, Systematic and Authorized	Unplanned, unsystematic and unauthorized
<i>Flow</i>	Prescribed through chain of command	Unofficial channels not Prescribed
<i>Flexibility</i>	Rigid	Flexible
<i>Authority</i>	Official Channel	Unofficial
<i>Purpose</i>	To achieve Business Objectives	To satisfy personal needs
<i>Speed</i>	Time taking	Fast
<i>Accuracy</i>	Accurate, Legal and Authentic	Often Distorted, may be Rumors and Gossips
<i>Form</i>	Oral and Written	Usually Oral
<i>Source</i>	Can be traced	Cannot be traced

[Source](#)



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2.1.4. Formal & Informal Communication



[Source](#)



- based on informal relations (like friendship, membership of the same club, the same place of birth, etc.)

[Source](#)



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2.1.5. Visual Communication

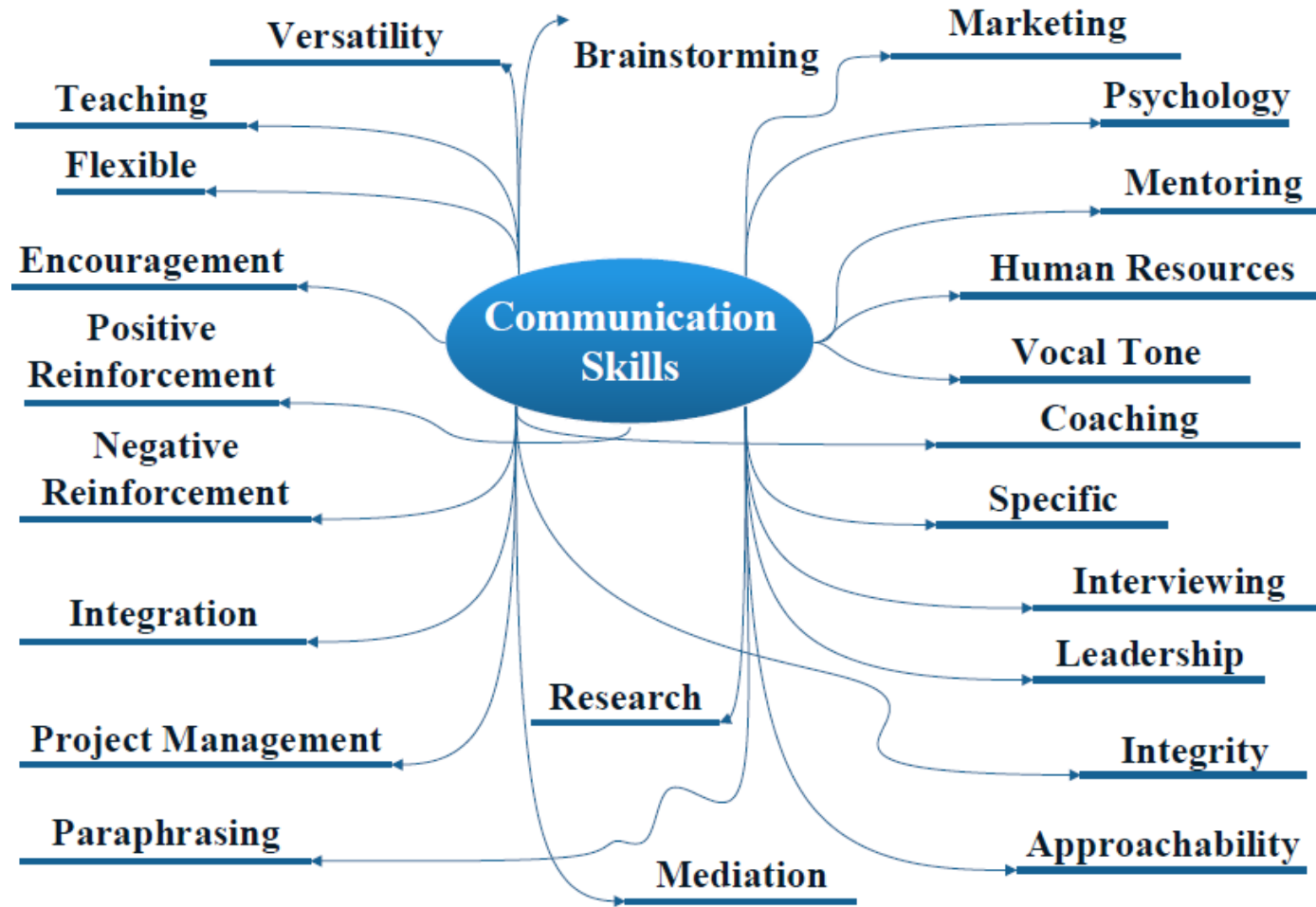
- the conveyance of ideas and information in forms that can be seen.





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2.1.6. More types of communications skills



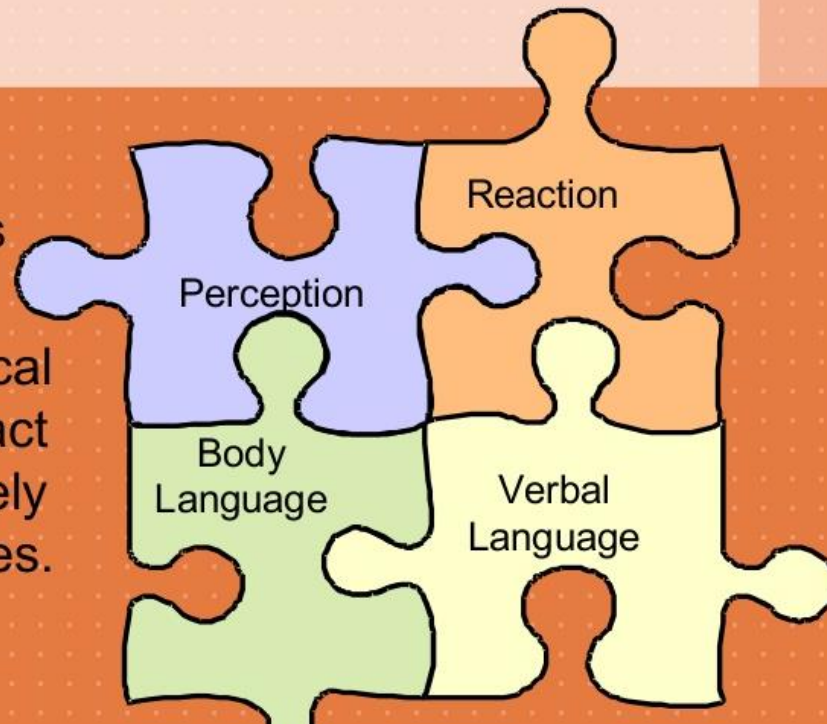


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2.1.8. Oral communication

What is Oral Communication?

- Oral Communication is a mix of verbal, interpersonal and physical strategies used to interact confidently and effectively with a range of audiences.

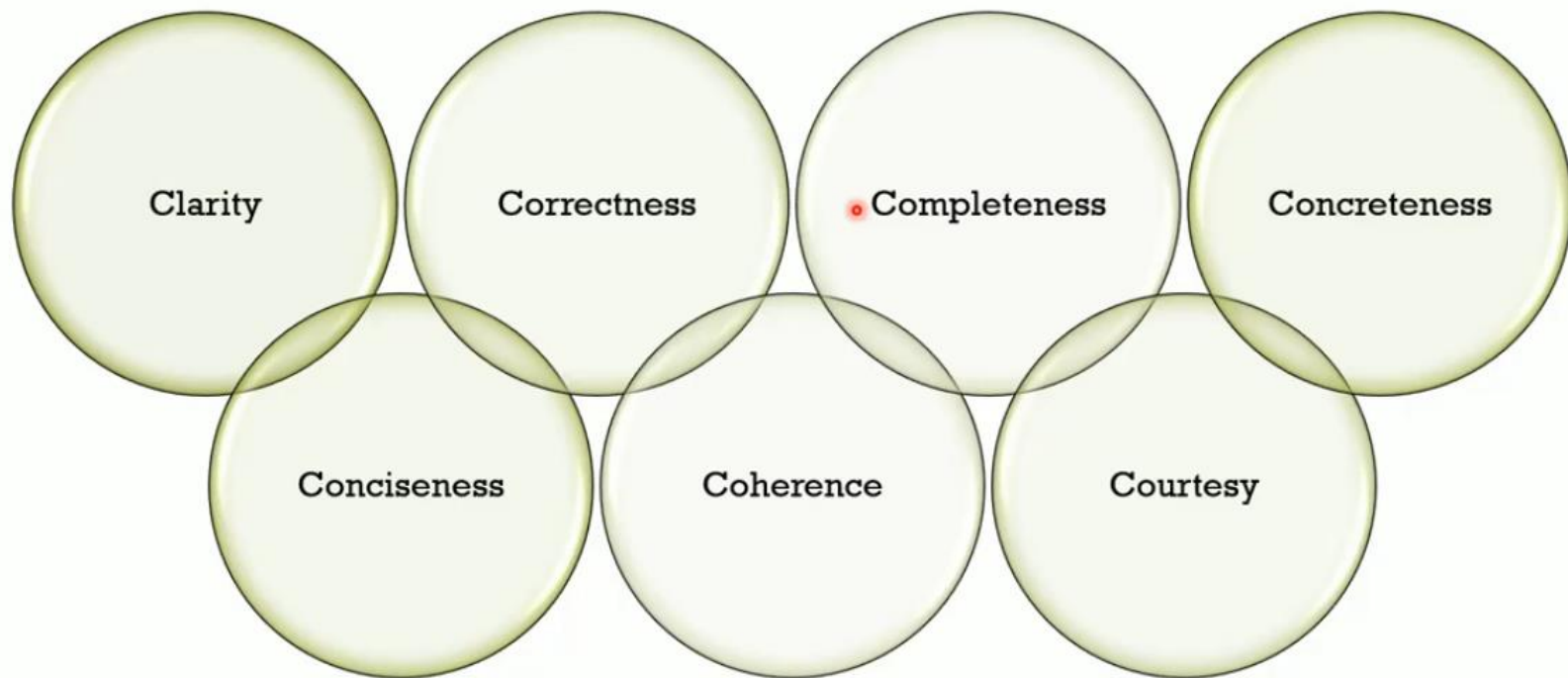


Source



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1.8. Important features of the communication (the 7 ,C')



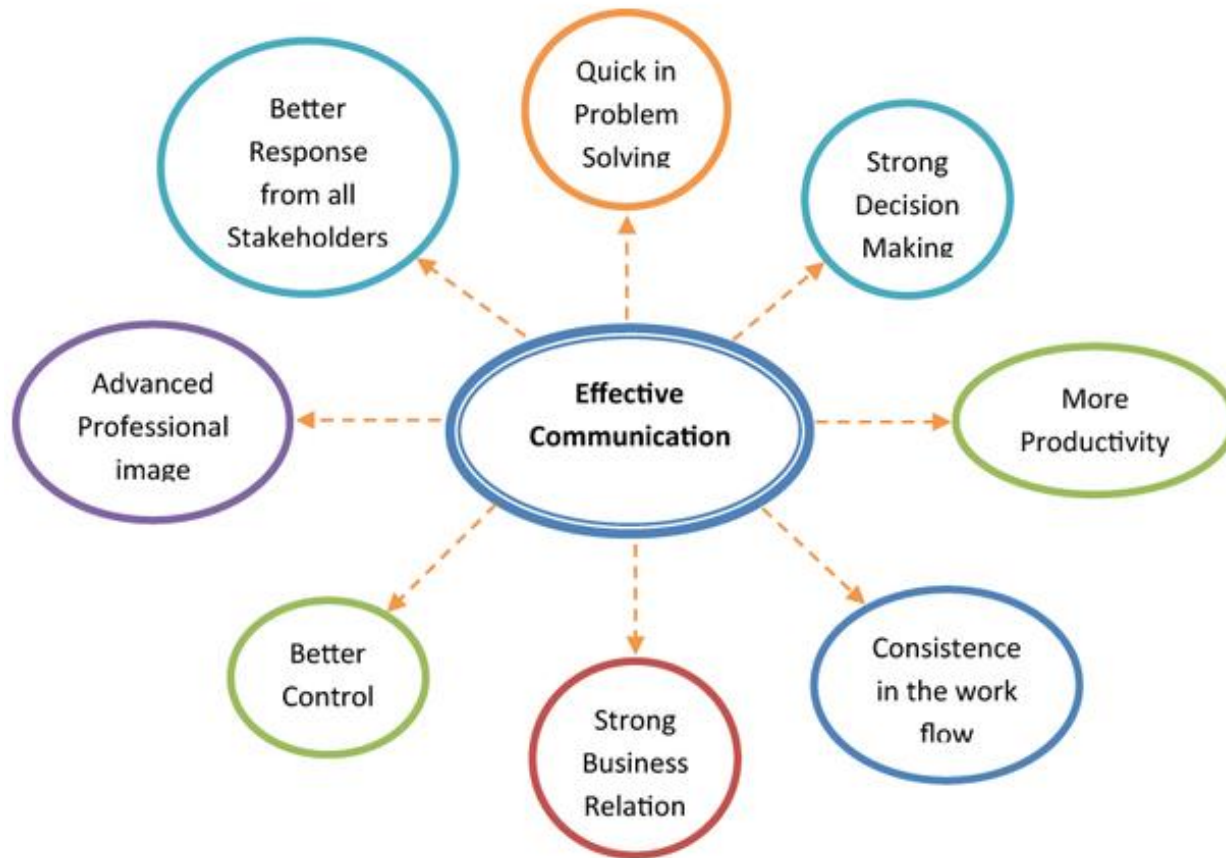
[Source](#)



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1.8. Importance of communication: a great overview of why communication skills are important.

Source





Source





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1.9. (7 Tips) for Electronic Communication in the Workplace



1. Consider your employer.
2. Follow your boss's lead.
3. Know your audience.
4. Be appropriate for the situation.
5. Use the "front-page" test.
6. Know how to craft formal emails.
Avoid all caps
7. Be extra vigilant with social media.

[Source](#)



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1.9. Top 10 skills for job



[Source](#)



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COMMON GAME - for REVIEW the communication skills

The Kahoot! logo is displayed in white on a light blue background. It features the word "Kahoot!" in a playful, rounded font, with a small skull icon replacing the letter 'o'.

Game PIN

Enter





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3. ICT definition

Information Communication Technology

a generic term referring to technologies which are being used for collecting, storing, editing and passing on information in various forms (SER,1997).

unified communications

- integration of telecommunications
- computers
- necessary enterprise software
- storage
- audio-visual systems

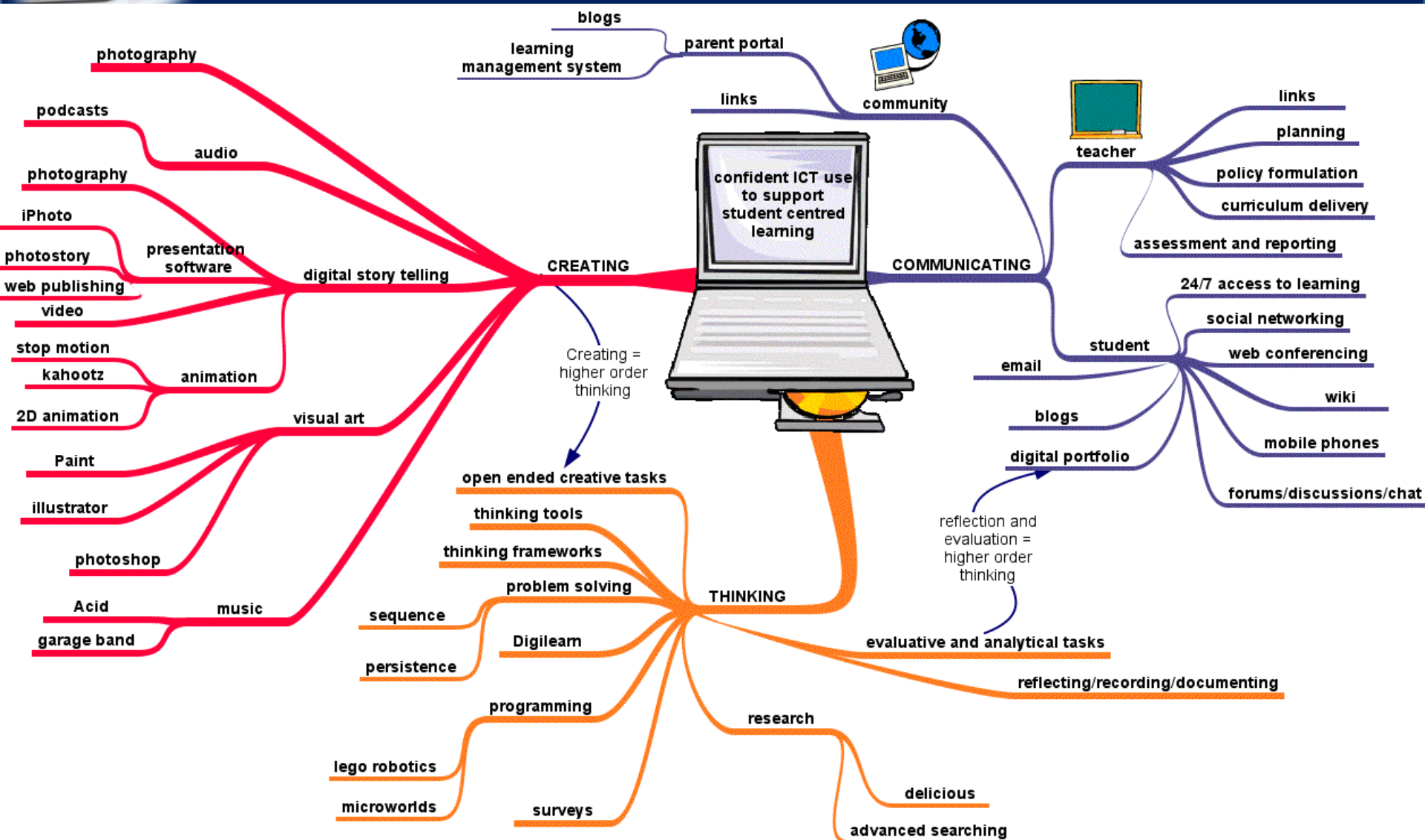
focus to enable users to:

- access,
- store,
- transmit,
- manipulate information.





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Communication Skills with ICT Tools

3. Definition of ICT



CT



**„...ICT will affect the complete learning
process today and in the future.”**

(Yves Punie, Dieter Zinnbauer and Marcelino Cabrera, 2012)





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3.1. Meaning of ICT in Education?

- can improve student's learning
- lecturers can use better methods

Educational ICT 3 categories:

Knowledge Comprehension

Practical skill

Presentation skill

Visualiser/
Document
Camera

PC

Slate/
Tablet

Projector

Interactive
Whiteboard

Digital
camera

Switcher

Student
response
system

Application
Software

Display:
Monitor,
TV..etc.

Digital
Recorder

Other
technology

([Source: http://www.elmoglobal.com/en/html/ict/01.aspx](http://www.elmoglobal.com/en/html/ict/01.aspx))



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3.1. ICT in Education?

- transformed education
- helps students to gain valuable computer skills
- Aiding tools in collaboration, group work
- visualization of difficult concepts
- promote creativity, flexibility
- promote variety in learning
- provide a multimedia presence in the classroom



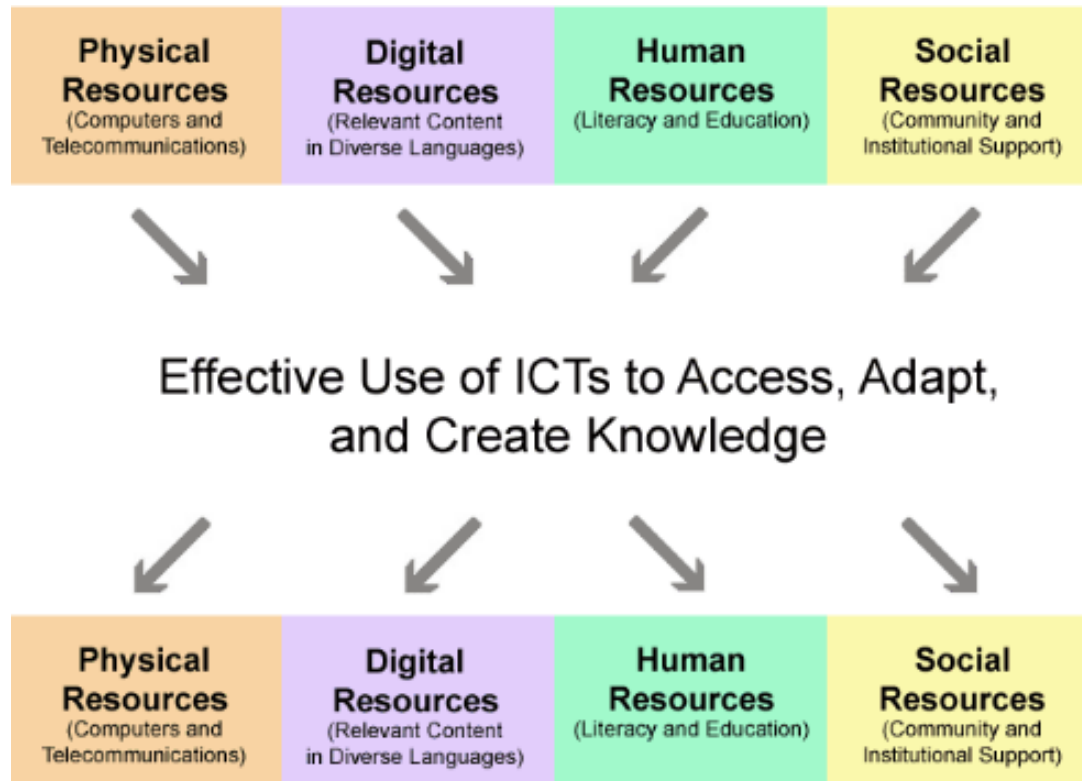
CC:BY:SA-M.U.Paily



Communication Skills with ICT Tools

3.2. Advantages of ICT in Education?

- ICT can improve student's learning
- lecturers can use better methods



(Source)



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4. How should ICT be used ?

Hypothesis based on papers: *e-Skills EU Newsbrief*, March 2010, etc.

- to improve the memory of students (Inquiry-based learning)
- to improve their understanding (*Nicol, D. & Boyle, J. T. ; 2003*)
- to create interactive classes (use of the [simulation](#))
- to make lessons more enjoyable
- to flip the classroom
- to improve concentration of the students,
- to rise up the students,
- to evaluate students' performance using diff. methods of ICT ([see more](#))



[Source:](#)



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4. How should ICT be used ?





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4. How should ICT be used?

- using time-saving possibilities

SOLUTIONS ?



Use clickers



Print QR codes
for mobile phones

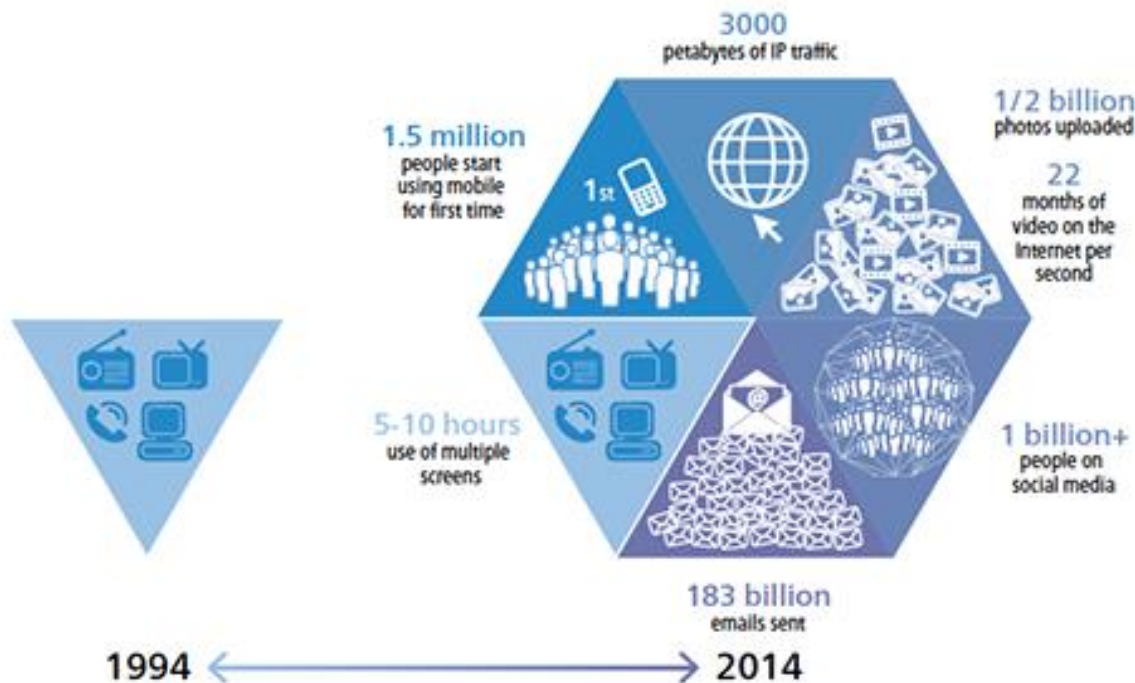


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4. How should ICT be used?

1

A typical day in the digital world



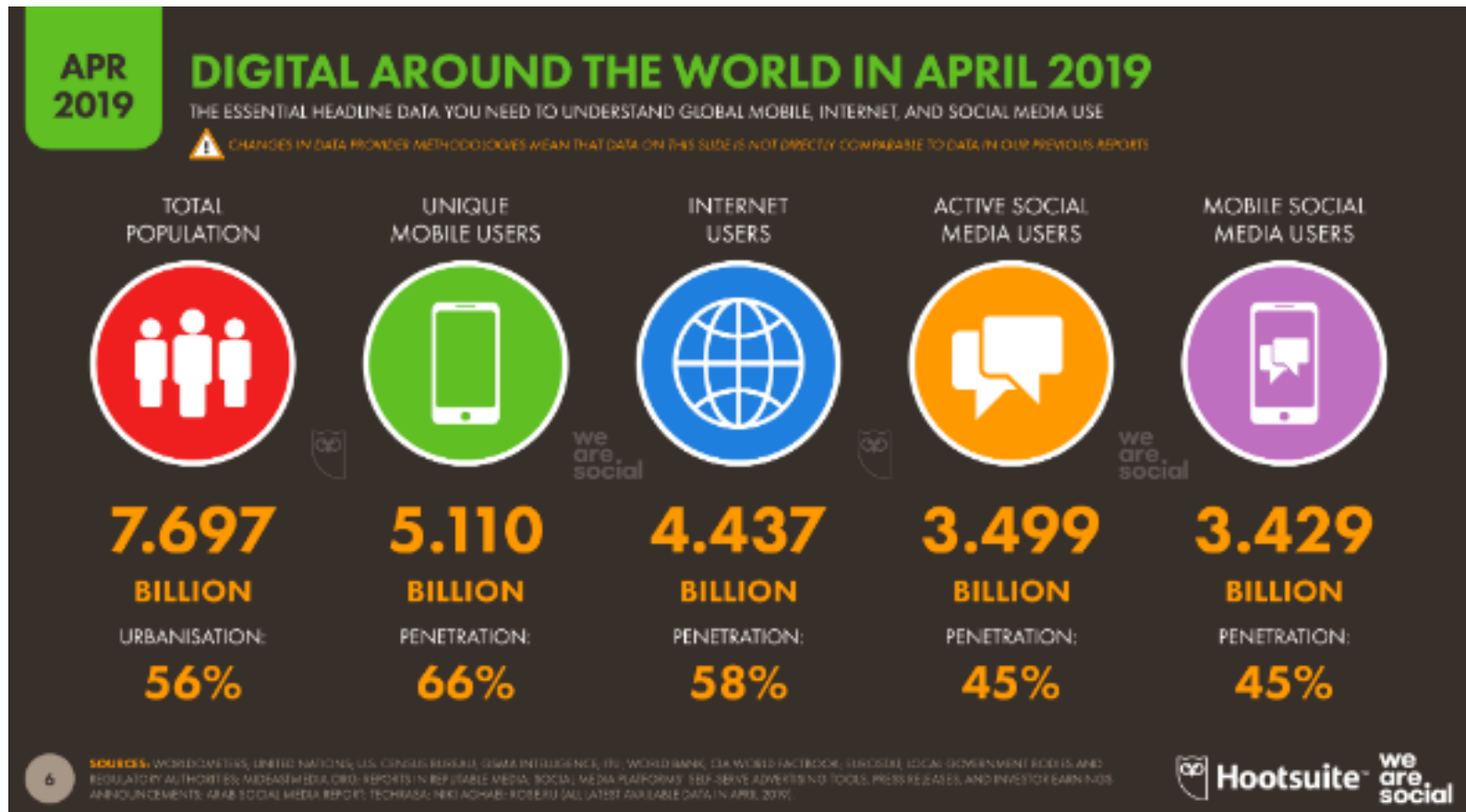
Source: ITU.

[Source](#)



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4. How should ICT be used?

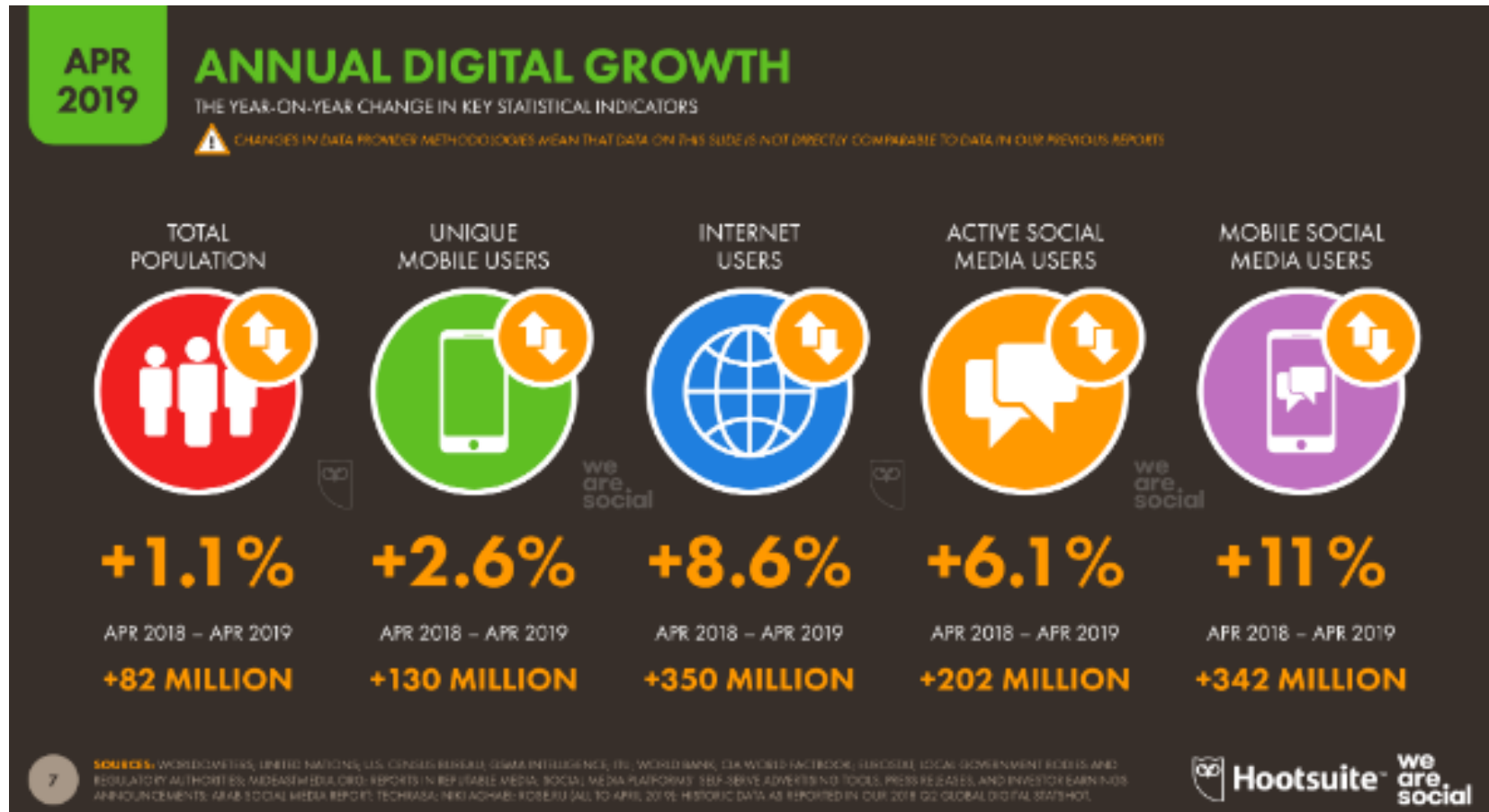


[Source](#)



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4. How should ICT be used?



[Source](#)



APR 2019

INTERNET USE: DEVICE PERSPECTIVE

BASED ON ACTIVE INTERNET USER DATA, AND ACTIVE USE OF INTERNET-POWERED MOBILE SERVICES

TOTAL NUMBER OF ACTIVE INTERNET USERS	INTERNET USERS AS A PERCENTAGE OF TOTAL POPULATION	TOTAL NUMBER OF ACTIVE MOBILE INTERNET USERS	MOBILE INTERNET USERS AS A PERCENTAGE OF TOTAL POPULATION
 4.437 BILLION	 58%	 4.031 BILLION	 52%

SOURCES: 1) WORLD BANK, CIA WORLD FACTBOOK, TOTAL ACTIVE MOBILE PHONE SUBSCRIPTIONS BY COUNTRY, WE ARE SOCIAL, DIGITAL REPORTS BY WE ARE SOCIAL, SOCIAL MEDIA PLATFORM USER NUMBERS, MOBILE SHARE DATA, EXTRAPOLATED FROM COUNTRIES WITH 10+ YEARS AND DATA PUBLISHED BY THE WORLD'S LARGEST TOTAL REVENUE PLAYERS VIA B2B11'S VOS RELEASES AND SELF-SERVE ADVERTISING TOOLS.

9

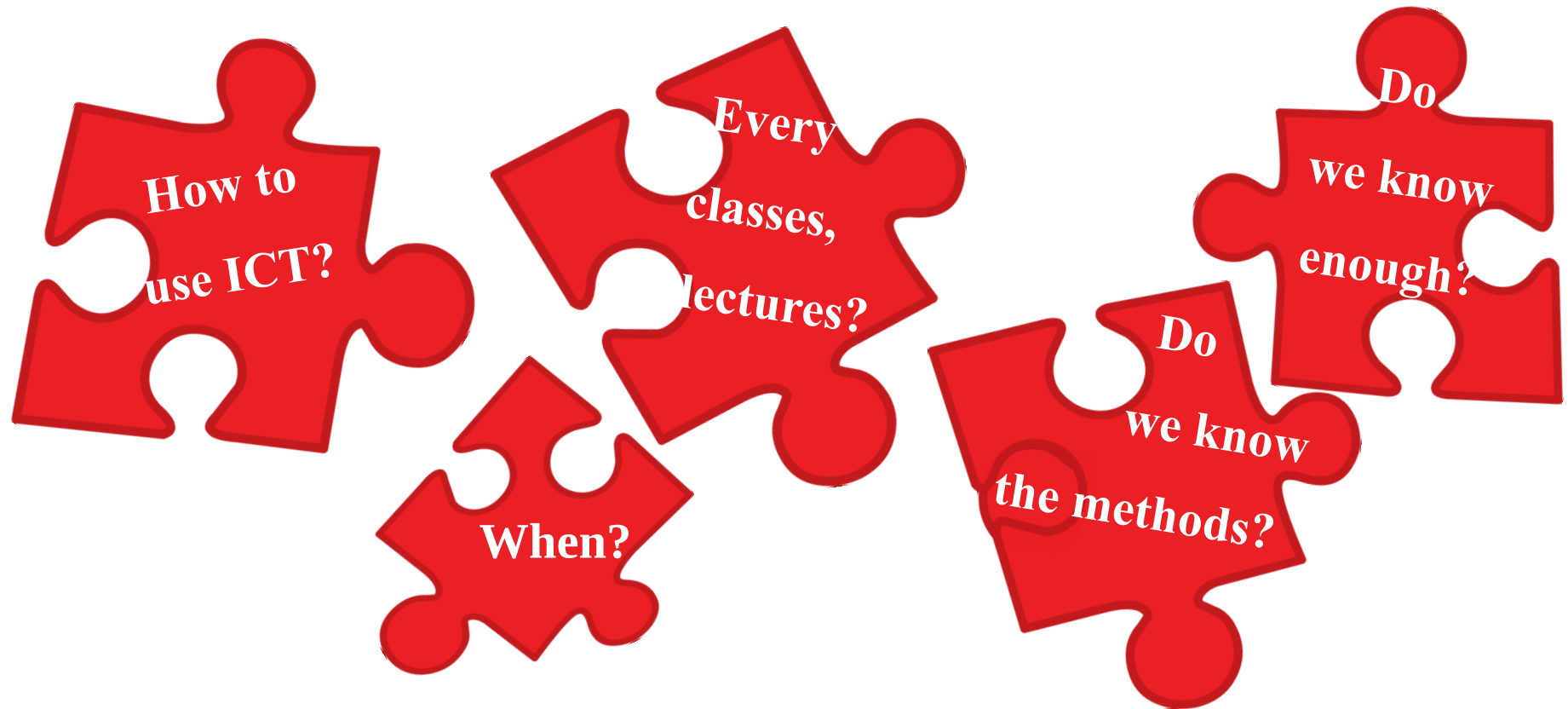
 Hootsuite™ we are social





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5. Possibilities for use of ICT in Education





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5. Possibilities for use of ICT in Education

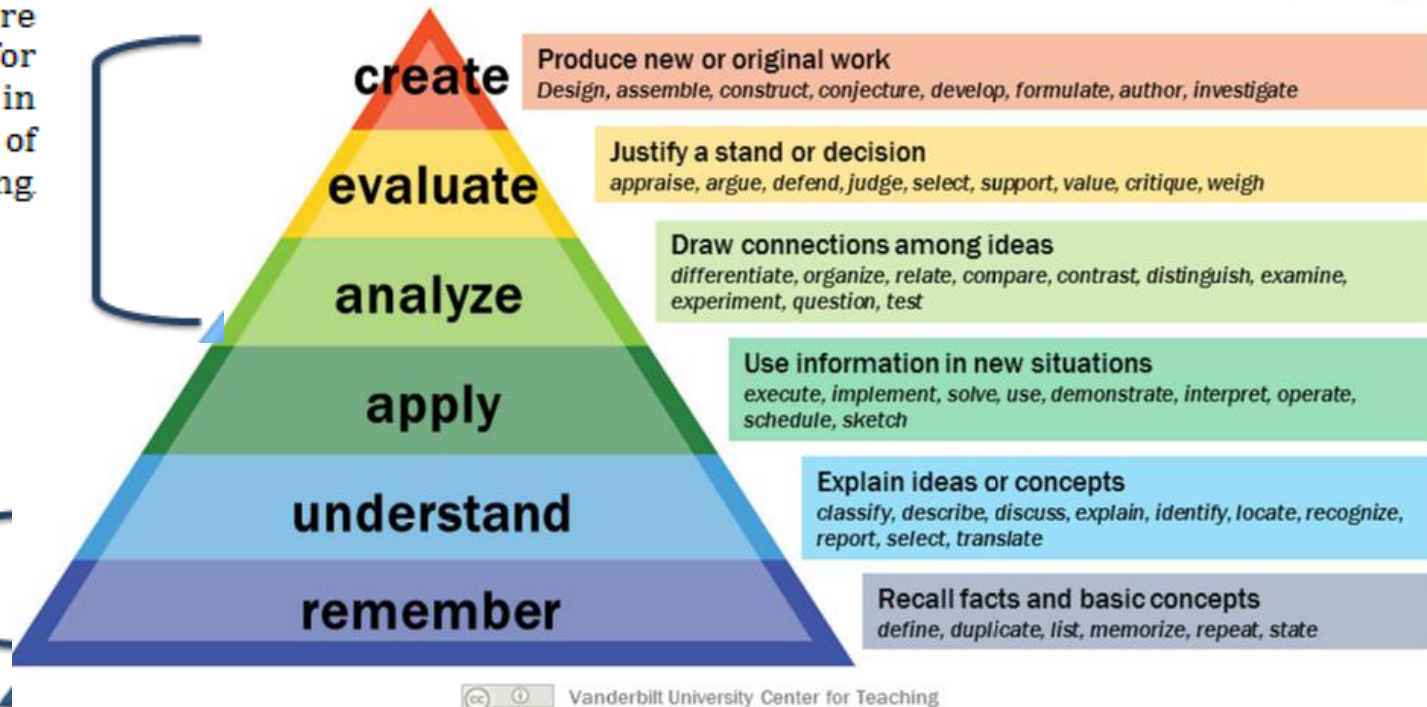
Traditional Model

Students are responsible for homework in these levels of understanding

Teachers introduce new material to students.

Flipped Model

Bloom's Taxonomy



[Source](#)



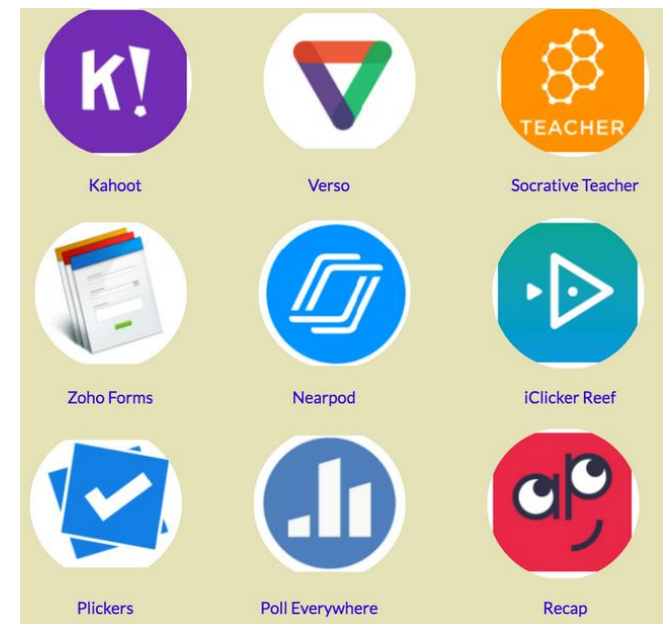
Communication Skills with ICT Tools

5. Possibilities for use of ICT in Education

Bloom's Thinking Levels	Web Tools
Creating	Wevideo 30hands StoryboardThat Glogster HaikuDeck
Evaluating	InfuseLearning Socrative Kaizena Google Docs Poll Everywhere
Analyzing	Edmodo Doctopus Online Rubric Citelighter (Sylvian Paper) Hemingway
Applying	Google Slides Google My Maps MindMeister Lucidchart Animoto
Understanding	Pixton Dipity Thinglink Edublogs

Remembering

- [SeeSaw](#)
- [Wunderlist](#)
- [Diigo](#)
- [Padlet](#)
- [Google Keep](#)





Communication Skills with ICT Tools

6. Peer Instruction

Key question: Are we teaching the right thing?

*Source: Understanding or memorization by **Eric Mazur**, in Conference on the Introductory Physics Course, Ed. Jack Wilson, pp. 113-124 (Wiley, New York, 1997). CRLF*



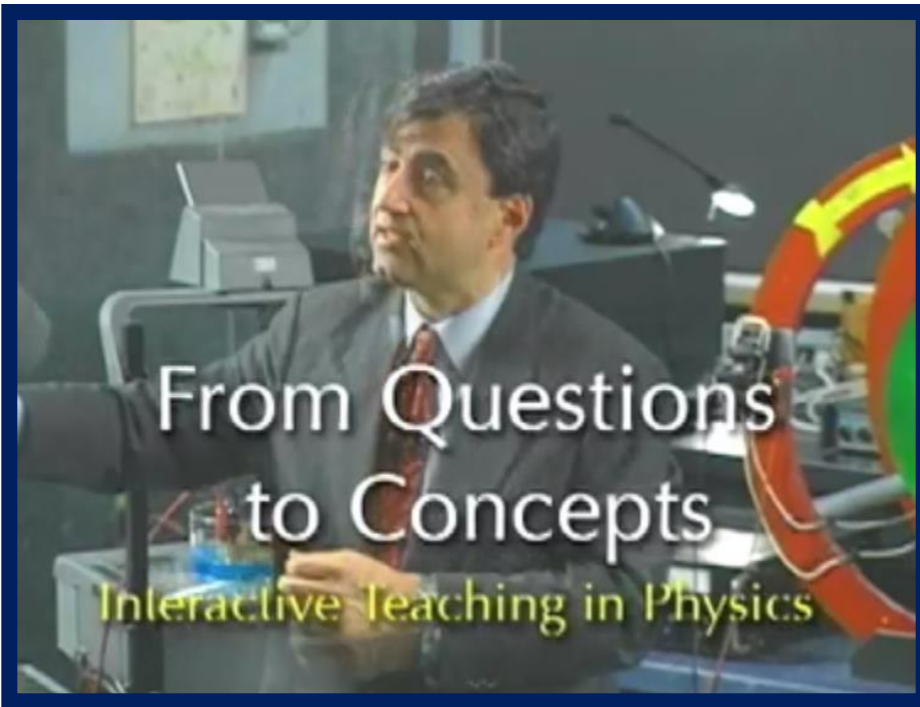
- the **first winner of the Minerva Prize** for Advancements in Higher Education development of “**peer instruction**”, an **innovative teaching method**

([Source](#))



Communication Skills with ICT Tools

6. Peer Instruction



- developed by Eric Mazur,
since more than 20 years ago

**Peer Instruction for Active Learning -
Eric Mazur** 

AIM:

- the instructor “**flips**” the classroom,
- motivate students
- students prepare for class by reading
or watching videos

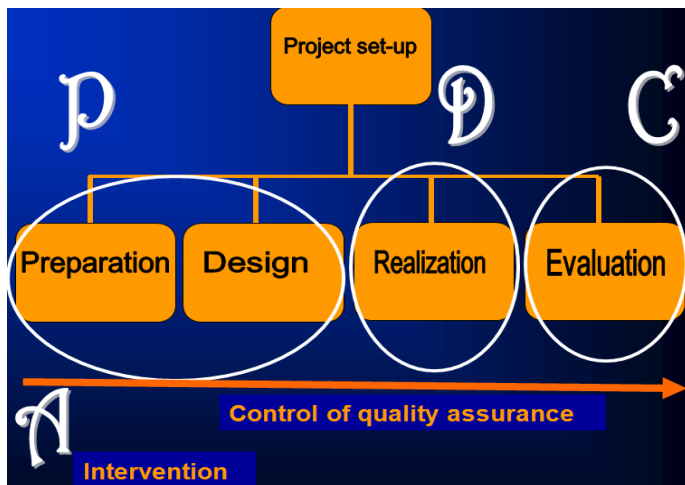
[Source](#)



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7. Methods to use ICT in Education

Project method



Cooperation method



Turn to Your Neighbor



Source 1: <http://www.slideshare.net/jeena.aejy/project-as-a-method-of-teaching-presentation>

Source2: <http://blog.peerinstruction.net/2014/07/11/peer-instruction-for-computer-science-the-neighborhood/>

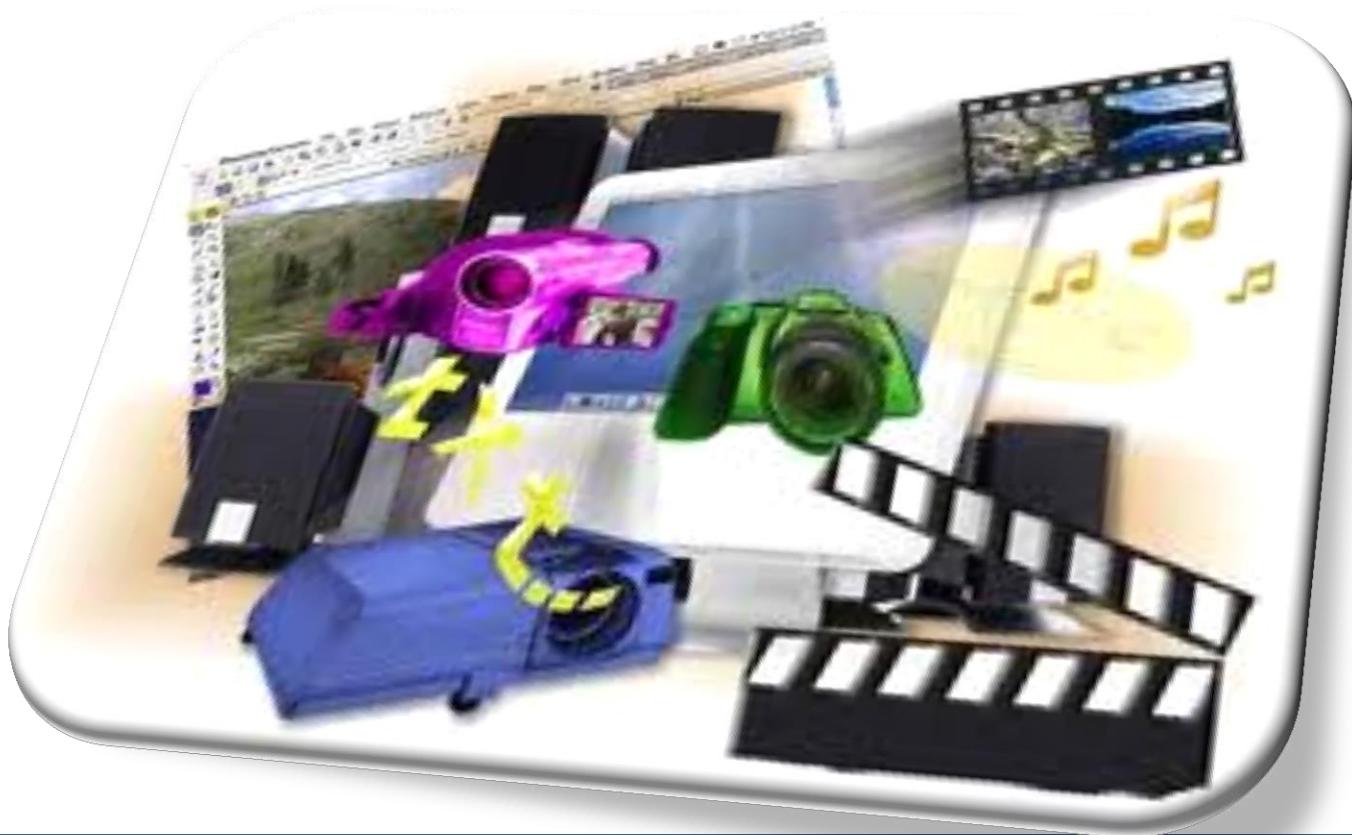
Using different methods we should not forget: Multimedia!



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8. Multimedia definition

WHAT DOES „MULTIMEDIA” MEAN ?





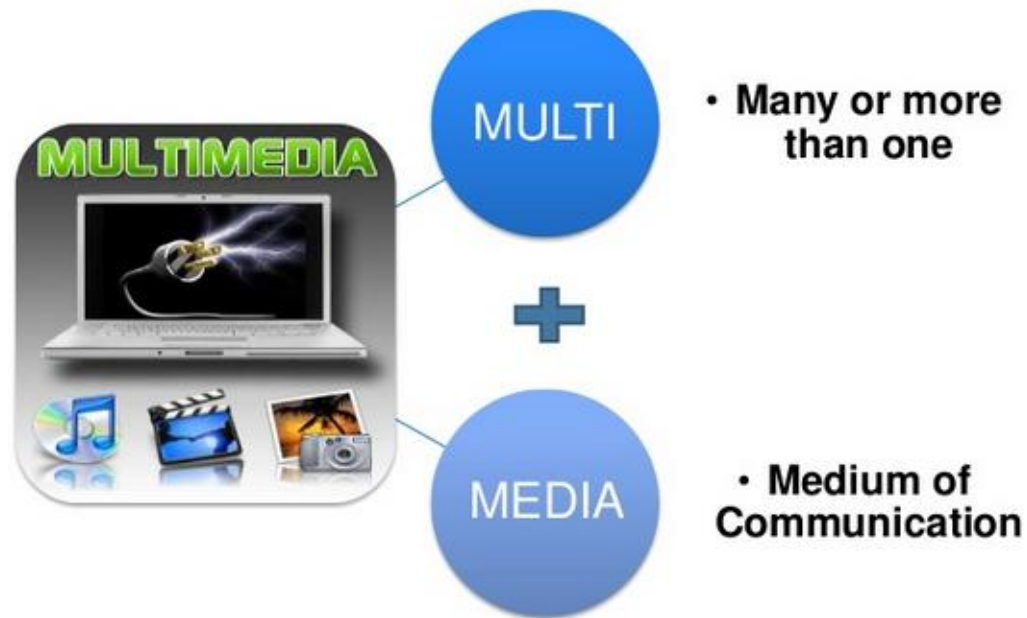
Communication Skills with ICT Tools

8. Multimedia definition

WHAT DOES „MULTIMEDIA” MEAN ?

WHAT IS **MULTIMEDIA** ??

- The word multimedia is composed of **two parts**: the prefix multi and media
- **Multi** = Plural, more than 1, many
- **Media** = Medium of communication



[Source](#)



Communication Skills with ICT Tools

8. Definition of Multimedia (review)

Multimedia is any combination of

- text,
- graphic art,
- sound,
- animation,
- video,
- interactivity

delivered by computer





Communication Skills with ICT Tools

8. Multimedia definition

Without the knowledge of **multimedia tools, elements** and characteristics the modern multimedia can not be understood!



IPAD



PDA



Blackberry



Smart pad



mp3 player



Tablet Pc



Phone



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8. Multimedia definition

Magic Wall for traveling exhibition Sissy and Hungary



[Source](#)

The Cicret Bracelet





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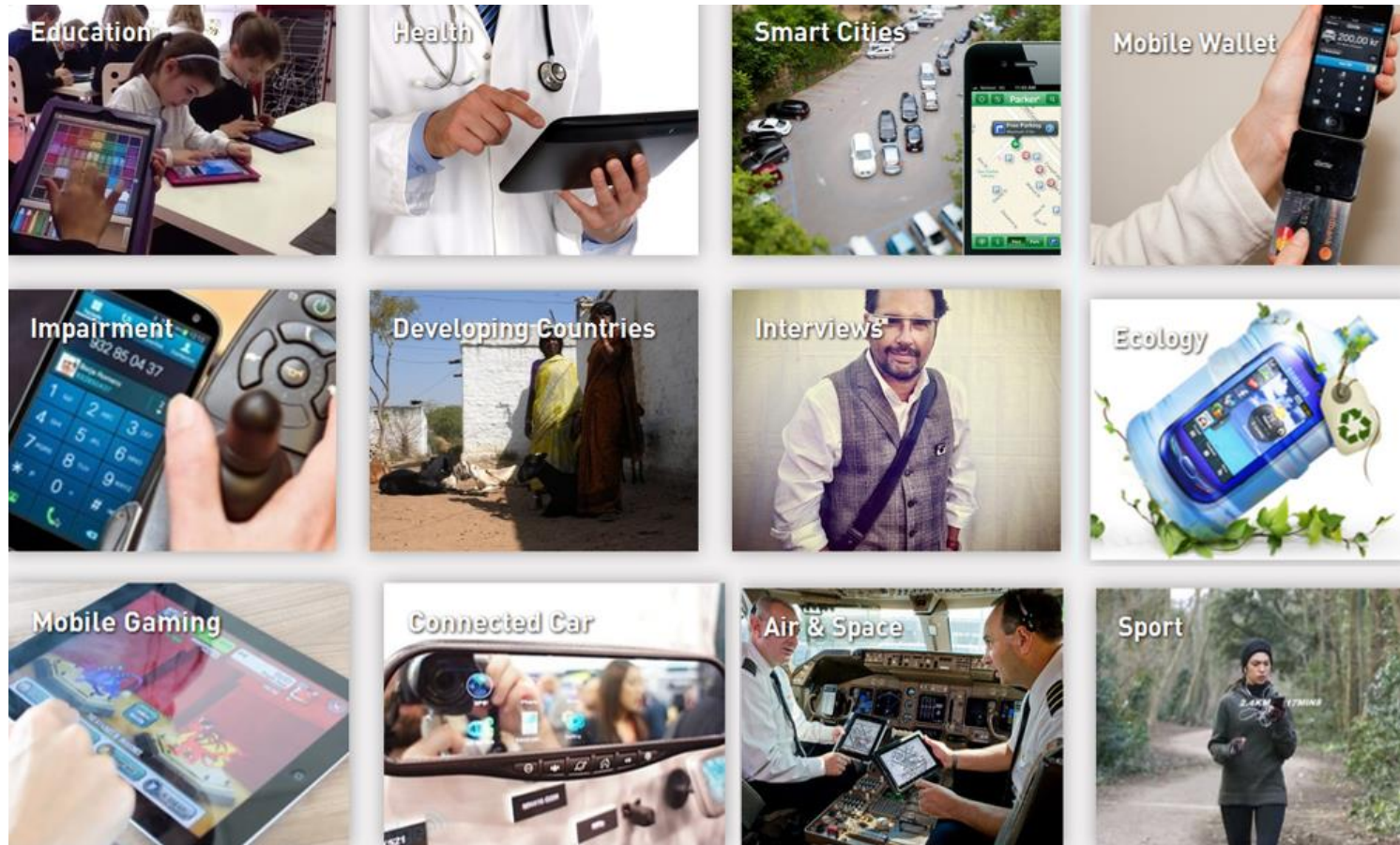
9. Importance of multimedia in different fields of society





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9. Importance of multimedia in different fields of society



[Source](#)



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10. Use ICT and Multimedia tools ?

- evaluations
- summary of each chapters
- at the end of the lecture
- during the lecture
- if one of the experiment can not be presented (dangerous)
- projects evaluation
- team work

AIM: to achieve some kind of knowledge acquisition and learning goal



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10. Use ICT and Multimedia tools ?

For e.g:

The impact of ICT and multimedia used to flip the classroom (Physics lectures) via Smart phones and tablets

http://www.sukjaro.eu/JBea/pdf/scientix/jb_mptl_eload.pdf

ENJOY PHYSICS CLASSES WITH YOUR OWN DEVICES

<http://www.sukjaro.eu/JBea/pdf/jarosievitzbeata2016Girep.pdf>

ICT AND MULTIMEDIA IN PHYSICS EDUCATION

<http://www.sukjaro.eu/JBea/eloadas/firenze/start.html>



Communication Skills with ICT Tools

11. Concluions: Impact of ICT and Multimedia tools used in Education, based by different communication skills Communication

❖ modernize teaching

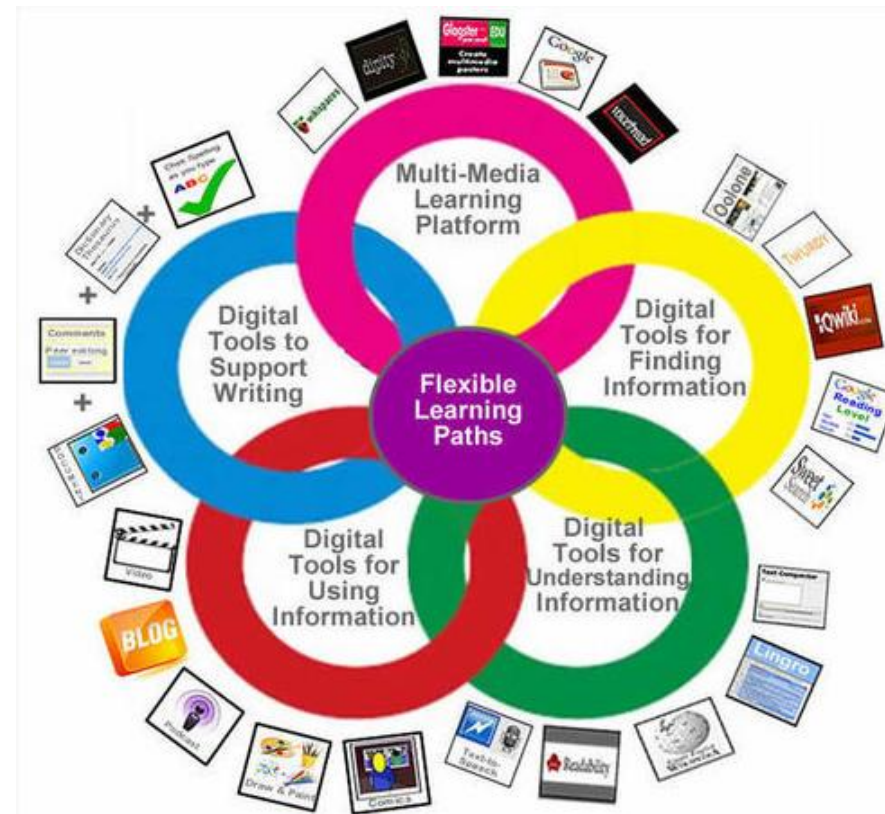
❖ rise up students' motivation, interest

❖ follow the mobile revolution

❖ use mobile for good purposes

❖ follow the different high-tech

developments







Dennis Gabor





Communication Skills with ICT Tools

Questions ???



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References

