

DUH1A2 ICT Literacy

Pengantar Literasi ICT

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✓ Pembahasan:

Apa itu Literasi TIK dan Literasi Informasi

Kelebihan & Kekurangan ICT

ICT untuk pembangunan

Sejarah Komputer

Arsitektur Sistem

Internet

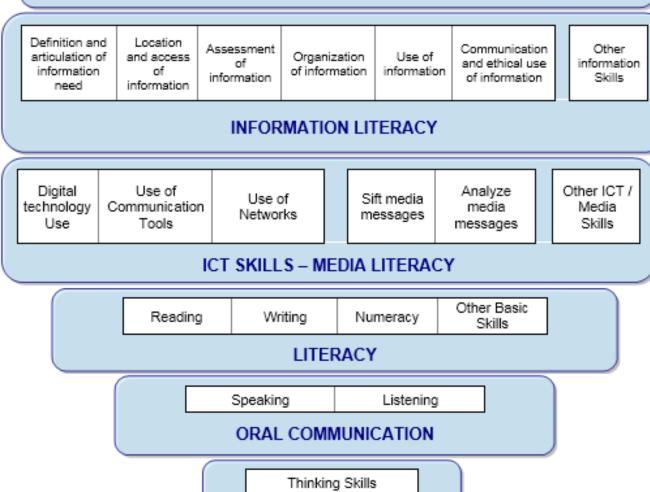
✓ Tujuan Pembelajaran:

- 1. Mampu memahami komponen literasi TIK dan literasi Informasi
- 2. Mampu memahami dasar unsur teknologi dalam literasi TIK dan literasi

Informasi

Communication Skills Map

Communication Skills Map Communication Skills Constellation



Catts Ralph, Lau Jesus.2008.

Towards Information Literacy Indicators.UNESCO: Paris.

REASONING

Tujuan Literasi Informasi

"Bagaimana menyelesaikan masalah menggunakan Informasi"

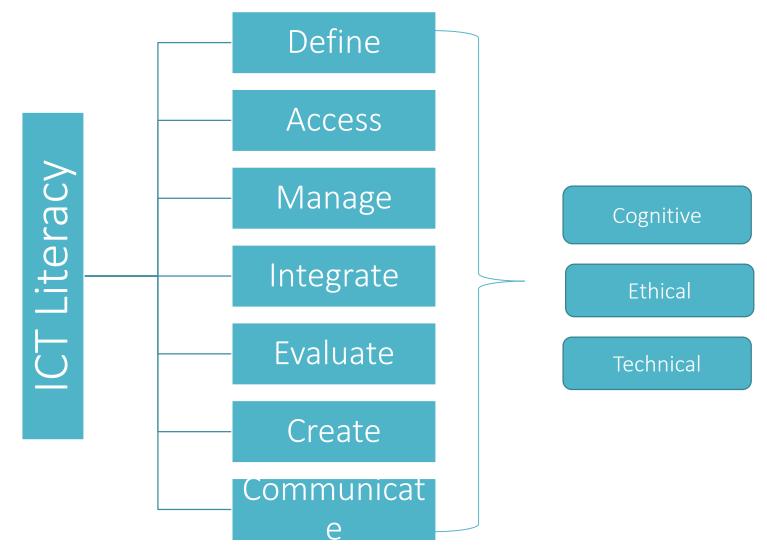
Literasi TIK adalah...

... Kemampuan untuk menggunakan teknologi digital, alat komunikasi dan atau jaringan dalam

Mendefinisikan(*Define*), Mengakses(*Access*), Mengelola(*Manage*), mengintergrasikan(*integrate*), Mengevaluasi(*evaluate*), Menciptakan (*create*) and Mengkomunikasikan(*communicate*)

Informasi secara baik dan legal dalam rangka membangun masyarakat berpengathuan.

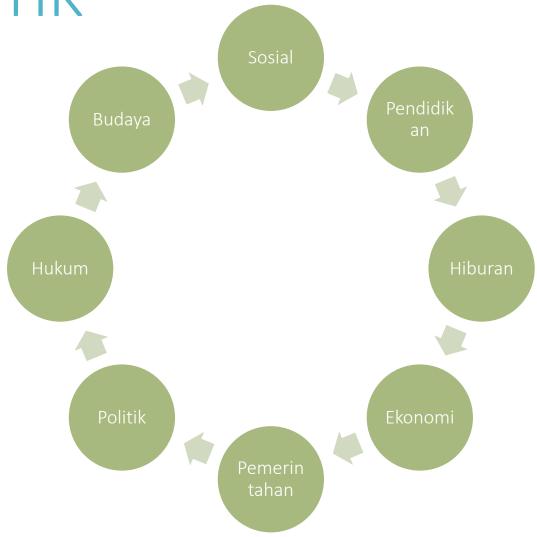
Proficiency Model

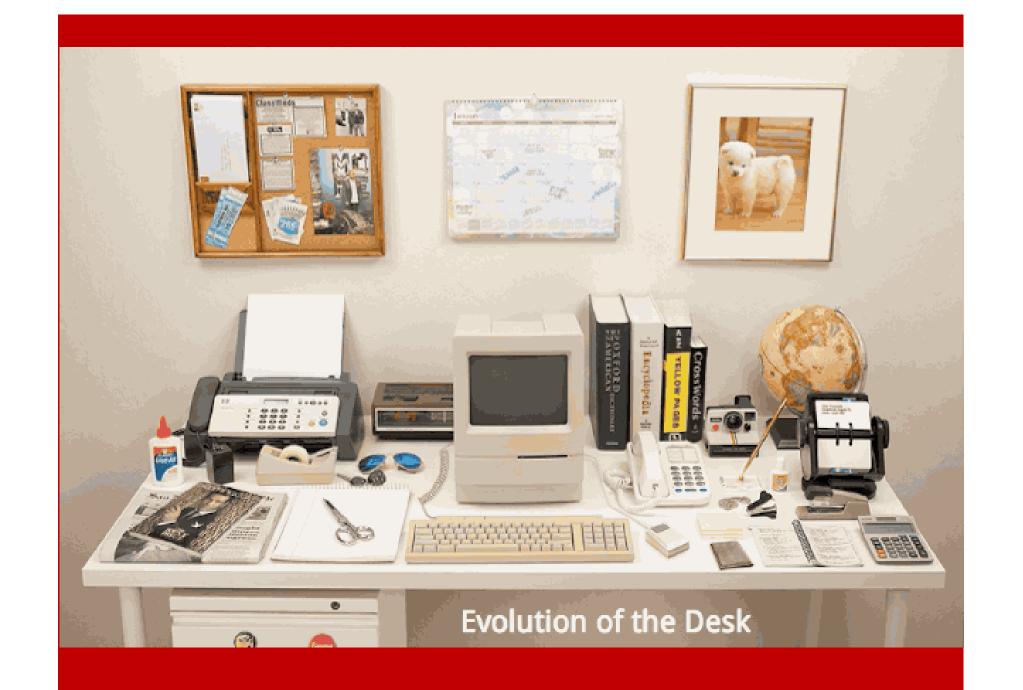


Sumber: Educational Testing Service (ETS), Teresa Egan, Project Leader, New Product Development

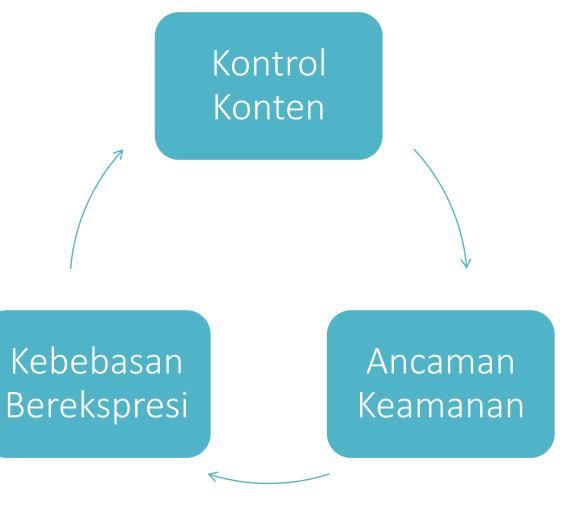
Kelebihan dan Kekurangan TIK

Kelebihan TIK





Kekurangan TIK



Peran ICT

ICT dalam Pembangunan

Memantapkan komitmen nasional untuk merangkul dan memanfaatkan ICT di bawah naungan Kerangka Nasional Teknologi Informasi (*National Information Technology Framework*)

Strategi ICT akan meningkatkan upaya mengurangi kemiskinan secara nasional

Implementasi strategi yang memanfaatkan pendekatan desentralisasi akan mendorong proses pengalihan peran dan tanggung jawab pemerintah pusat ke tingkat daerah

Sumber: Bappenas

Dengan Catatan:

Jika berdiri sendiri, ICT tidak dapat berperan optimal

ICT paling tepat dimanfaatkan untuk menyempurnakan proses yang sudah berjalan cukup baik

Pengguna ICT biasanya orang-orang yang sudah akrab dengan ICT

Penerapan efektif ICT melibatkan baik infrastruktur teknologi maupun infrastruktur informasi

Di perdesaan negara berkembang (yaitu tempat tinggal mayoritas penduduknya), instalasi dan perawatan infrastruktur teknologi relatif mudah dibandingkan dengan pengadaan infrastruktur informasi

Sumber: Bappenas

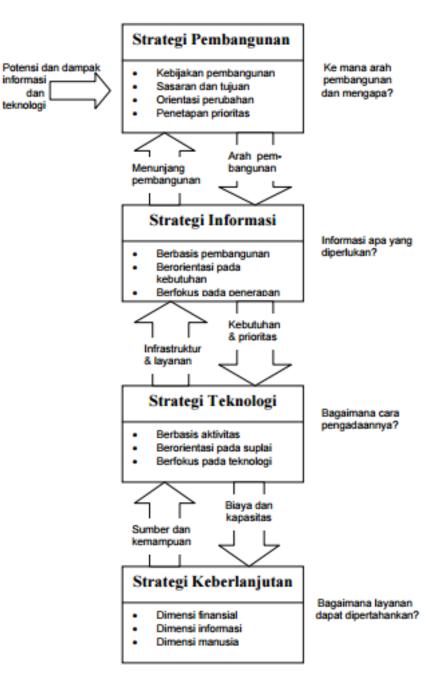
Dengan ICT, kita pantas berharap; bahkan yang tidak terduga pun dapat muncul sebagai hasil

ICT mungkin membuka peluang-peluang bagi pembangunan, tetapi hasil yang diharapkan selalu muncul dari kegiatan manusianya

Sumber: Bappenas

Pembangunan dan ICT

Sumber: Bappenas



dan

teknologi

Sejarah Komputer



Computers oroginated from the abacus in 1600 AD. It is also known as the first calculator. (Computers were originally made deal with numbers and equations)

Atansoff Berry Computer

Created by: John Vincent

the computer

-Center of a patent dispute

relating to the invention of



Selective Sequence Electronic Calculator Created by: IBM -Computed scientific data in public display near the company's Manhat an headquarters



Created by: John Presper Eckert and John W. Mauchly -First Commercial made in the US



Creation of the PDP-1, important for the computer hackers. -Direct descendant of TX-0. -Lised punched paper tape as its storage medium. -Inspired the creation of a text writing

1974: Xerox Alto Created by: Xerox Palo Alto Research Center -First work station with built in mouse for input -Offered menus and icon s and could link to a local area network.







Kenbak-1 Created by: John V. Blankenbaker -First personal computer -Advertised for \$750

-256-byte memory

Creation of Ap Created by: Ap

and sun micro -First work stat -More powers for a fraction o -Compatible w graphics progr

Creation

Created

-Z80 bas

-4 kiloby

Basic, ca



Complex Number Calculator Created by: George Stibitz -Considered first demonstration of remote access computing



Created by: John Mauchly, J. Presper Eckert -Improved by 1000 times on the speed of its contemporaries



Created by: Cambridge University -First practical stored progra computer



Created by: John Von Neumann -Many clones were created due to contract such as the MANIAC. the ILLIAC and the SILLIAC







1962:

card storage system.

Creation of Semi Automatic Ground Environment

Used for intercepting bombers.

-First large-scale computer communications network

programs.

IBM created the first removable Disk Storage Drive. -This was called the IBM 1311. IBM's 650 (Magnetic Drum Computer) -Smaller than other memroy storage. becomes the first mass produced computer. This disc drive storage system marked end of punch



Felker and Harris create TRADIC (Transisto Digital Computer) a computer made of transistors instead of vacuum tubes.



Apollo Guidance Computer Introduced orbiting earth on Apollo 7 -Guided Apollo 11 to the Lunar Surface in 1969 -Communicated by punching two digit codes and the appropriate syntactic category into. keyboard unit



Created by: Apple Steve Wozniak and Jobs designed Apple Land got started in their business





Sejarah Komputer

Sumber: Pinterest.com







Created by: John V. Blankenbaker

- -First personal computer -Advertised for \$750
- -256-byte memory

History of Computers



Creation of Apollo DN100 Created by: Apollo Computer and sun microsystems -First work station of Apollo Cor puters

-More powers than most mini computers for a fraction of the price -Compatible with computer-intensive graphics programs common in engagering

Apple creates Lisa -Their first personal computer with graphical user interface -failed due to high price



Daniel Hillis developed the controversial concept of massive parallelism in the Connection

Machine. -Used up to 65 536 processors to complete billions of operations each second.

-Processors had thier memory linked to work faster



Tim Berners-Lee and Robert Cailliau invented the start of the Internet. -Tim Berners-Lee succeed in setting up

the first web server on December 25,1990 (info:cerruch)

-Intel releases the 486DX2 chip that generates higher operating speeds. -Radio Shack releases the M2500 XL/2 and M4020 SX personal computers.

Microsoft and Hewlett Packard develops ECP (Extended Capabilities Port)



-Intel releases 2nd generation of intel



-Apple introduces Mac OS X 10.0 (Cheetah)



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able Disk Storage Drive.

em marked end of punch



keyboard unit

Created by: Apple Steve Wozniak and Jobs designed Apple I and got started in their business



Creation of: TRS-80

1975

Created by: Tandy Radio Shack -Z80 based microprocessor

-Video display

-4 kilobytes of memory -Basic, cassette storage



Cray XMP doubled the operating speed of computers with a parallel processing system. of 420 megaflops.

-Allowed 2 Crays to work together. -Used for defense and scientific research.



Created by: Adam Osborne Creation of the Osborne I -First portable computer -64 kilobytes memory, a modem and 2 ¼ inch floppy disk drives 5 inch display



Apple launched the Macintosh -1st successful mouse-driven computer with a graphic user interface.



-Intel introduces the 486DX processor -1 million transistors & multitasking capabilities.



Internet

-Apple Mac OS X 10.4 (Tiger)



Sumber: Pinterest.com

Arsitektur Sistem

Hardware dan Software (KBBI)

/pe·rang·kat/ n alat perlengkapan;

- -- keras 1 barang-barang yang terbuat dari logam (pesawat televisi, proyektor, dan peralatan lain) yang berkaitan dengan suatu sistem; 2 peralatan fisik (komputer dan sebagainya);
- -- lunak 1 perangkat program, prosedur, dan dokumen yang berkaitan dengan suatu sistem (misalnya sistem komputer); 2 bagian dari alat (komputer dan sebagainya) yang berfungsi sebagai penunjang alat utama;

Hardware



Software



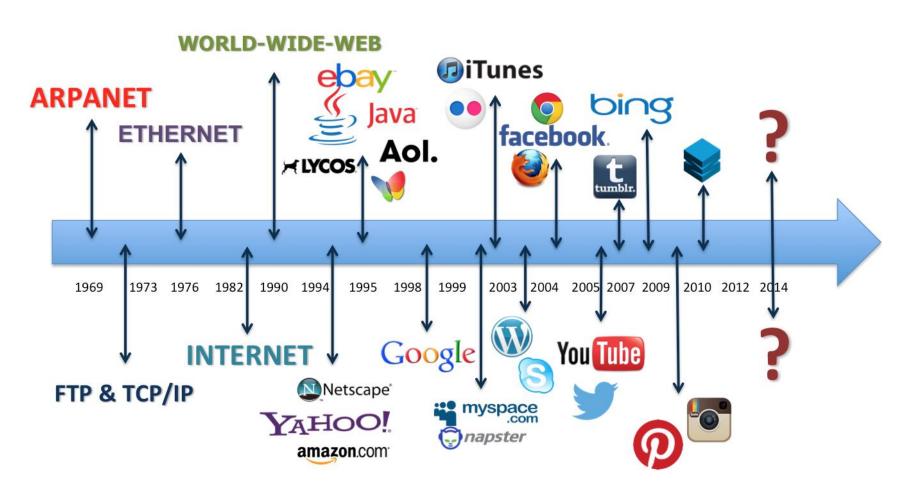
Internet

Apa itu internet ???



Internet VS internet

Sejarah Internet



Latihan

Diskusikan bertiga dengan rekan-rekan masing-masing

- 1. Apakah literasi informasi harus menggunakan teknologi TIK?
- 2. Sebutkan minimal 5 jenis ketrampilan dan kompetensi TIK yang dibutuhkan dalam pekerjaan masa kini?
- 3. Jelaskan bagaimana Microsoft Word (atau aplikasi office sejenis) membantu mengotomasi pekerjaan rutin sehari-hari?

DAFTAR PUSTAKA

Daftar Pustaka

ICT Literacy Assessment Information and Communication Technology, Educational Testing Service (ETS). Teresa Egan, Project Leader, New Product Development. http://webspace.ship.edu/hliu/etextbook/e-assessment/ict-assess.pdf. Diakses pada (03/08/2016).

Teknologi Informasi dan Komunikasi: Strategi Peduli Kemiskinan. Badan Perencanaan Pembangunan Nasional, United Nations Development Programme. http://www.bappenas.go.id/files/5013/5027/3392/propoorindoagung__20081122075003__582__0.pdf. Diakses pada (25/07/2016)

Catts Ralph, Lau Jesus. 2008. Towards Information Literacy Indicators. UNESCO: Paris.