




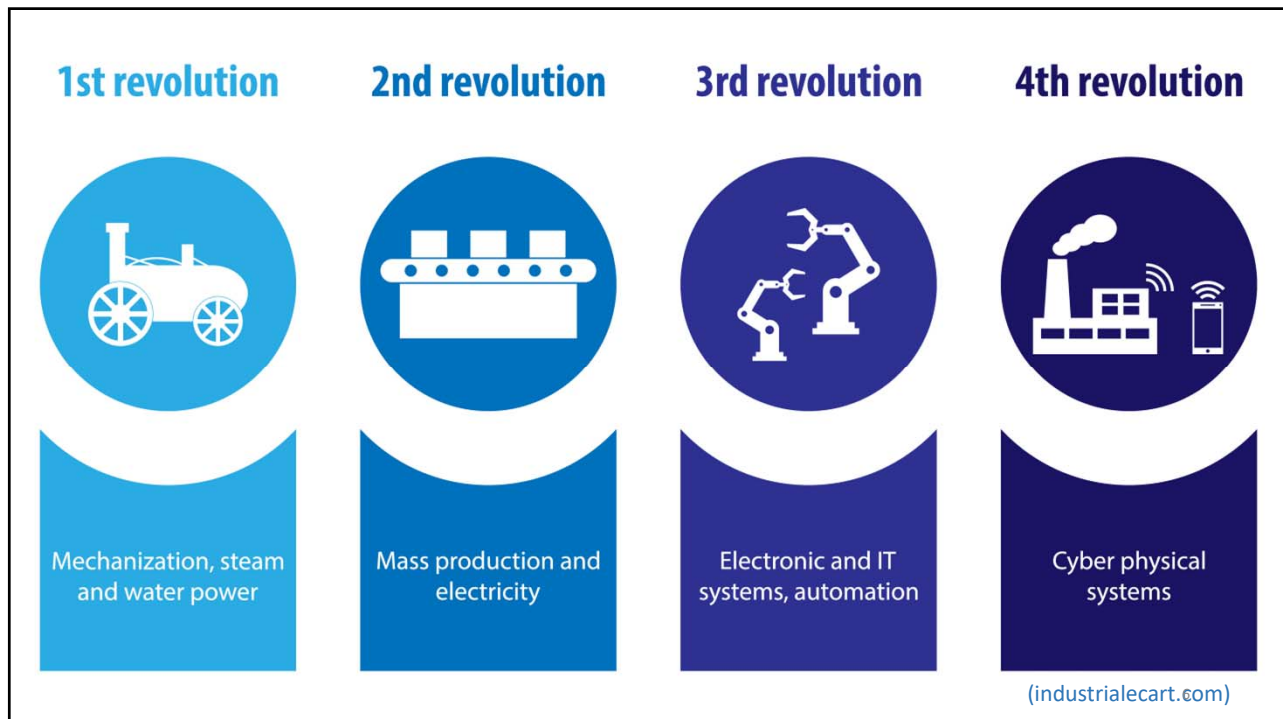
In 2004 – **Facebook** didn't even exist yet, **twitter** is a sound, the **cloud** was still in the sky, **4G** was a parking space, "**applications**" were what you sent to college, **Big Data** was a good name for a rap star, **Skype** was a typographical error.

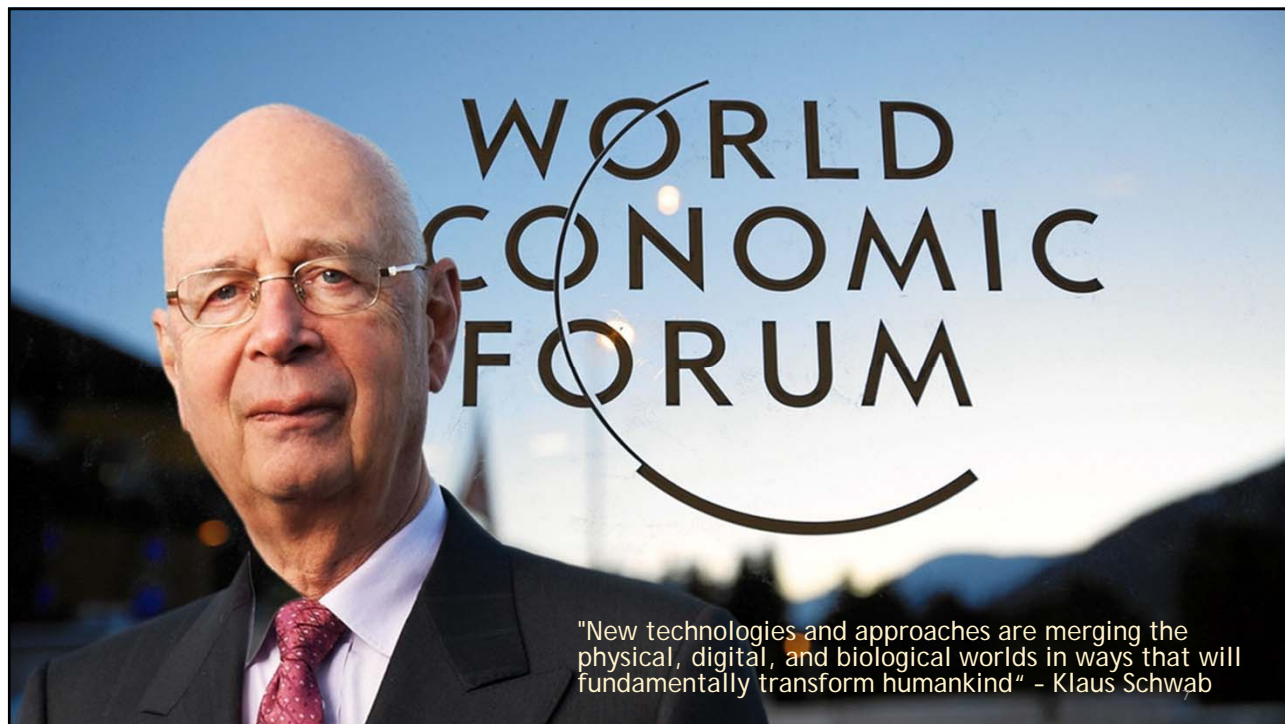
(Tom Friedman, 2016,
Thank You for Being Late: An Optimist's Guide to Thriving in the Age of Acceleration)

THE AGE OF ACCELERATION

(freshno3c.org)

- 
1. "Digital is a new normal"
 2. Disrupsi digital
 3. Literasi 4.0 ?!



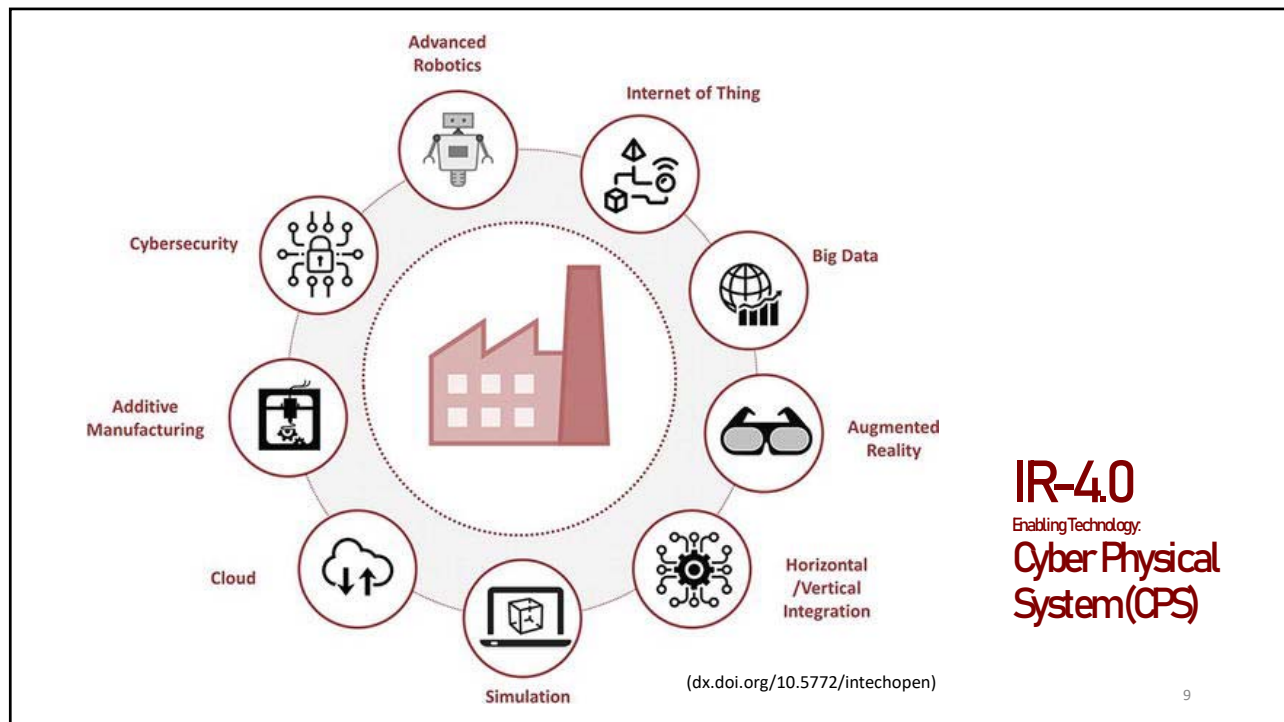


4th revolution



Cyber physical
systems

1. Smart Connection
2. Data to Information
3. Digital Twin
4. Cognition
5. Configuration





MACHINES ARE BETTER AT ...

- Processing huge data sets with speed and accuracy
- Working 24/7 without breaks, tiring, or getting distracted
- Scaling work up or down quickly
- Performing repetitive works
- Doing dangerous works, such as underwater search and rescue



HUMANS ARE BETTER AT ...

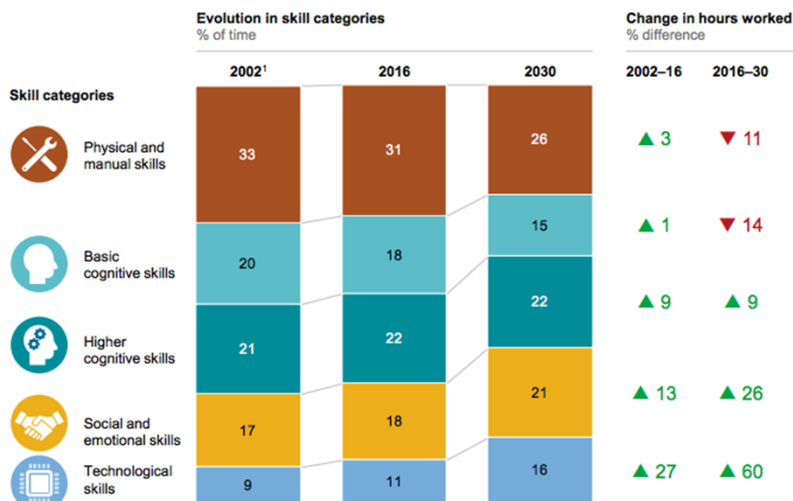
- Displaying empathy and humor
- Understanding context and picking up social cues
- Transferring their skill to others (teaching)
- Adapting their skill to different situations
- Demonstrating critical thinking, defining problem and creative pursuits

Source: Deloitte analysis.

Deloitte Insights | deloitte.com/insights

Automation and AI will accelerate skill shifts.

Based on McKinsey Global Institute workforce skills model
United States, all sectors, 2002–30

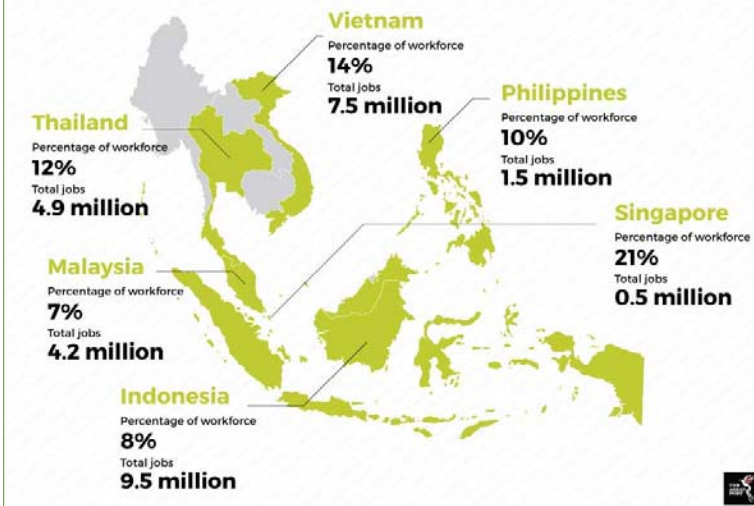


¹ Calculated using the 2004 to 2016 CAGR extrapolated to a 14-year period.
NOTE: Based on difference between hours worked per skill in 2016 and modeled hours worked in 2030. Numbers may not sum due to rounding.

SOURCE: U.S. Bureau of Labor statistics; McKinsey Global Institute workforce skills model; McKinsey Global Institute analysis

a. Otomatisasi

JOB DISPLACEMENT BY 2028 (ASEAN-6)



<https://theaseanpost.com/article/singapores-40-challenge>

- ❖ 41%: tidak memiliki ketrampilan IT yang dituntut pekerjaan baru
- ❖ 30%: tidak memiliki "interactive skill" (negosiasi, persuasi, pelayanan terhadap pelanggan)
- ❖ 25%: tidak memiliki "ketrampilan dasar" (active learning, reading, writing)

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WHICH SKILLS WILL BE NEEDED?

Studies show that the strongest growth is expected in technological skills, including both basic **digital skills** and more advanced technological skills.

Demand for higher **cognitive skills**, **social** and **emotional skills** is also expected to rise.

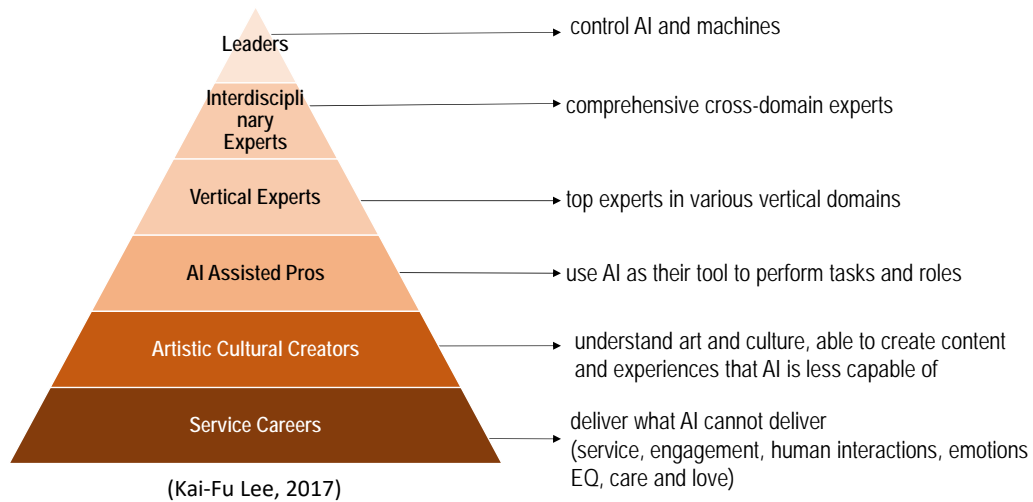


These softer skills are becoming the new hard skills desired in our workforce.

(intuition.com)

(bandingkan: www.bloomberg.com/graphics/2015-job-skills-report/)

B. Perubahan hirarki kerja



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MENGENAL ISTILAH DAN 4 STARTUP UNICORN RI



Valuasi startup sendiri adalah nilai ekonomi dari bisnis yang dilakukan sebuah startup

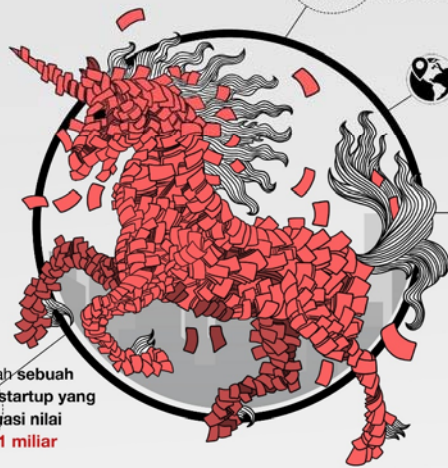


Saat ini terdapat **300 unicorn** di seluruh dunia

Kasta tertinggi setelah **unicorn**:

- **Decacorn** Startup yang memiliki valuasi nilai **US\$ 10 miliar**
- **Hectocorn** Startup yang memiliki valuasi nilai **US\$ 100 miliar**

Unicorn adalah sebuah perusahaan startup yang memiliki valuasi nilai hingga **US\$ 1 miliar**



c. Distribusi Kekayaan

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4 UNICORN INDONESIA

Penguasaan asing di unicorn bisa berdampak Indonesia menjadi pasar semata dan penonton di rumah sendiri. Saat ini ada empat startup unicorn di Indonesia, yakni Gojek, Tokopedia, Bukalapak, dan Traveloka.



GOJEK

Pendiri
Nadiem Makarim
Didirikan
2010

*US\$ **3,5**
miliar

7 kali

Investor

Tencent Holdings,
JD.com, New
World Strategic
Investment, Google,
Temasek Holdings,
Hera Capital, Astra
International dan
GDP Ventures



tokopedia

Pendiri
William Tanuwijaya
Didirikan
2009

*US\$ **2,4**
miliar

9 kali

Investor

Alibaba Group,
Softbank Grup,
Sequoia Capital



traveloka

Pendiri
**Ferry Unardi,
Derianto Kusuma,
dan Albert Zhang**
Didirikan
2012

*US\$ **500**
juta

4 kali

Investor

Expedia, GFC dan
Sequoia Capital
dari AS, Hillhouse
Capital dan JD.com



Bukalapak

Pendiri
Achmad Zaky
Didirikan
2011

*US\$ **200**
juta

6 kali

Investor

Ant Financial, Mirae
Asset, Naver Asia,
GIC dan Emtek
Grup dari Indonesia

50.75 T

34.8 T

7.25 T

2.9 T

(cnbcindonesia.com)

Total suntikan dana Penggalangan dana (*) Diprediksi

Consider this?

(webstagramsite.com)



The world's
biggest bank,
with no actual cash.



The world's largest
taxi company,
owns no vehicles.



The world's largest
accommodation provider,
owns no real estate.



The world's most
popular media owner,
creates no content.



The world's most
valuable retailer,
has no inventory.

Karakteristik

1. Memanfaatkan kapasitas atau sumber daya tak terpakai
2. Platform online menjembatani pemilik dengan yang membutuhkan
3. Jalur pendek
4. Cost transaksi minimal
5. Hubungan: mitra

D. Sharing Economy



United Nations
Educational, Scientific and
Cultural Organization

Sustainable
Development
Goals

gemreportunesco.wordpress.com

3. DIGITAL LITERACIES = POWER !!

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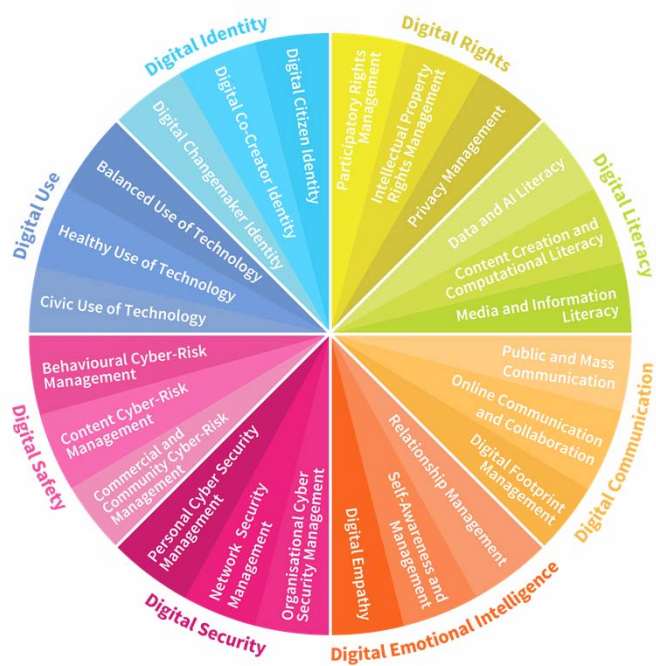
LITERASI DIGITAL

“Kemampuan untuk memahami dan menggunakan informasi dalam format beragam yang berasal dari berbagai sumber, dipresentasikan melalui computer” (Gilster, 1997)

“Literasi ICT, literasi informasi, literasi media” (Gallardo-Echenique, 2015)

FRAMEWORK

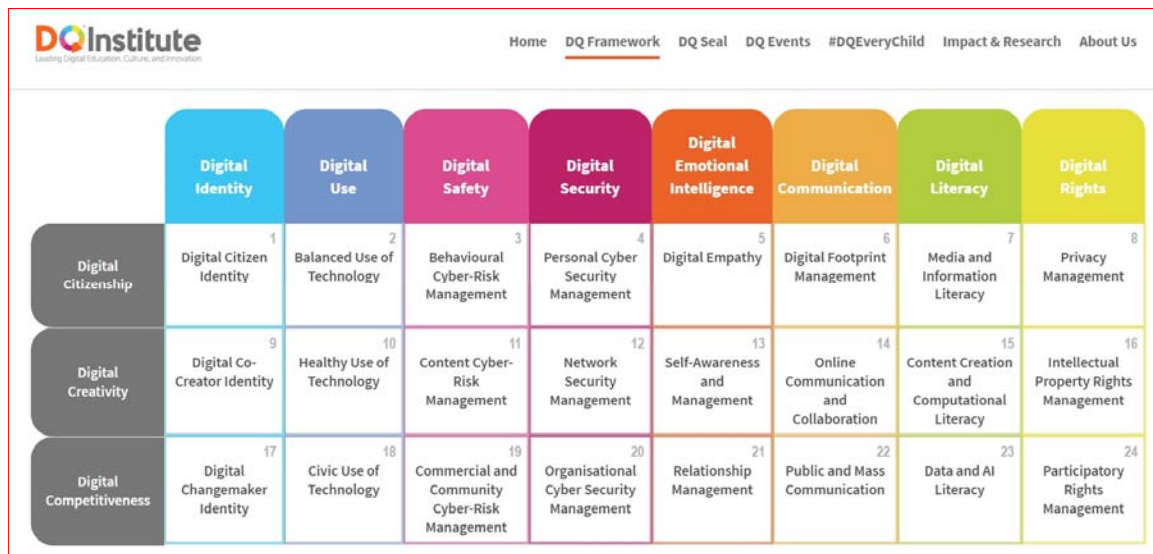
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Digital Quotient Digital Intelligence

(dqinstitute.org)

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<https://www.dqinstitute.org/dq-framework/>

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Digital literacy is the ability to find, evaluate, utilize, share, and create content using information technologies and the Internet.

Digital Literacy is important in education, the workforce and generally for every internet user.

Digital Literacy is one component of Digital Citizenship.

Digital literacy is when students can manipulate and evaluate data to construct their own meaning.

Digital literacy is using technologies to find, use and disseminate information.

Digital literacy is the ability to effectively and critically navigate, evaluate and create information using a range of digital technologies.

Digital literacy is a process, not a tool.

Digital literacy is critical to the development of UK further and higher education as digital technologies provide new opportunities to enhance teaching, learning, research and the management of organisations.

Digital Literacy is essential reading for students, researchers, writers, investors, and anyone who intends to use the bountiful resources available on-line to bolster their work.

Digital literacy is the means by which our students can access and gain fluency in the core skills we already teach: comprehension, synthesis, rhetoric, and argument.

Digital literacy is about many things, not just digitization projects.

Digital literacy is an essential part of job-readiness, socialization and independence.

Digital literacy is the ability to understand and use information in multiple formats from a wide range of sources when it is presented via computers.

(Doug Belshaw, 2017)

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~~Digital Literacy~~ Digital Literacies

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Cu

Cultural

Cr

Creative

Cn

Constructive

Co

Communicative

EIGHT ESSENTIAL ELEMENTS OF DIGITAL LITERACIES

(Doug Belshaw, 2012)

Cf

Confident

Cg

Cognitive

Ct

Critical

Ci

Civic

26

The diagram features a horizontal row of four white rounded rectangles with yellow borders, set against a dark gray background. Each rectangle contains a bold black abbreviation and a smaller black word below it. From left to right, they are: 'Cu' for 'Cultural', 'Cr' for 'Creative', 'Cn' for 'Constructive', and 'Co' for 'Communicative'.

Cu
Cultural

Cr
Creative

Cn
Constructive

Co
Communicative

EIGHT ESSENTIAL ELEMENTS OF DIGITAL LITERACIES
(Doug Belshaw, 2012)

FOUR SKILLSETS

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The diagram features a horizontal row of four white rounded rectangles with yellow borders, set against a dark gray background. Each rectangle contains a bold black abbreviation and a smaller black word below it. From left to right, they are: 'Cf' for 'Confident', 'Cg' for 'Cognitive', 'Ct' for 'Critical', and 'Ci' for 'Civic'.

Cf
Confident

Cg
Cognitive

Ct
Critical

Ci
Civic

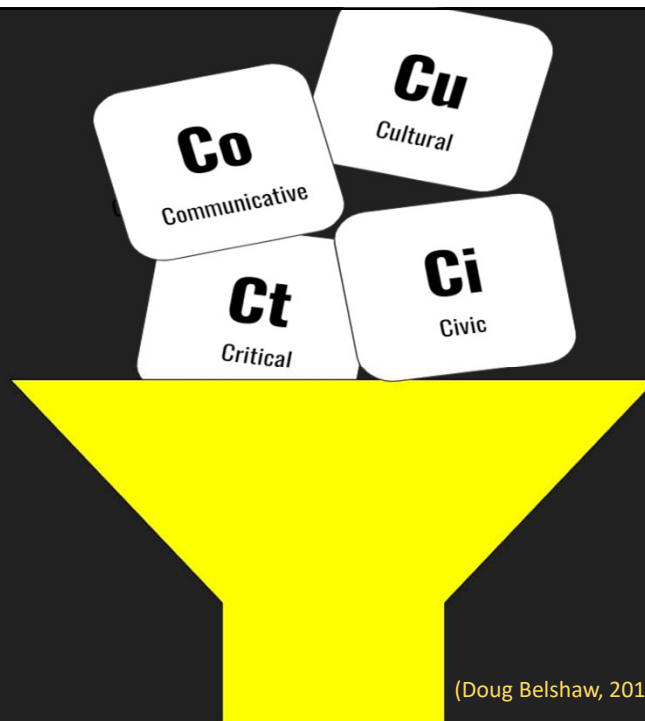
EIGHT ESSENTIAL ELEMENTS OF DIGITAL LITERACIES
(Doug Belshaw, 2012)

FOUR MINDSETS

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Traditional context
+
New twist
=
DIFFERENT LITERACY

(Doug Belshaw, 2012) 29



(Doug Belshaw, 2012)

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MODEL PENGEMBANGAN LITERASI DIGITAL

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Beetham &
Sharpe (2009)



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