

# Transformasi Perpustakaan untuk Generasi Millenial

Nafi Putrawan  
Co-Founder LIBex

LIB<sup>e</sup><sub>x</sub>

LIB<sup>e</sup><sub>x</sub>

<http://libexcellent.info>



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Information  
Partner

“We believe that maintaining the library means keeping the lives of mankind. So it takes library innovation that is in harmony with the times.”

## LIBex Founders Profile



**Reza Mahdi**  
**Founder**

Graduated from University of Indonesia in 2017 with experience following various conference activities and voluntary inside the field of library science and information. He has founded several communities for librarians and archives of some universities, including UI, UGM, and UM.

"The only thing that you absolutely have to know, is the location of the library." - *Albert Einstein*



**Nafi Putrawan**  
**Co-Founder/Mentor**

He graduated from University of Indonesia in 2016 and aware that the potential of library and information science is still very wide, although Internet technology has dominated our lives. Joined the Zurich Innovation Center in 2016 to help set up a new division in the Southeast Asia region. He has a vision for this field of science to collaborate with other multi-disciplines, such as AI, blockchain, and big-data.





Big questions

# 5 books worth reading this summer



6005 SHARES



1829 SHARES

By Bill Gates | May 21, 2018





## Workshop Menangkal Berita Hoax Mengenai Imigran

Brussels, Belgium  
2017

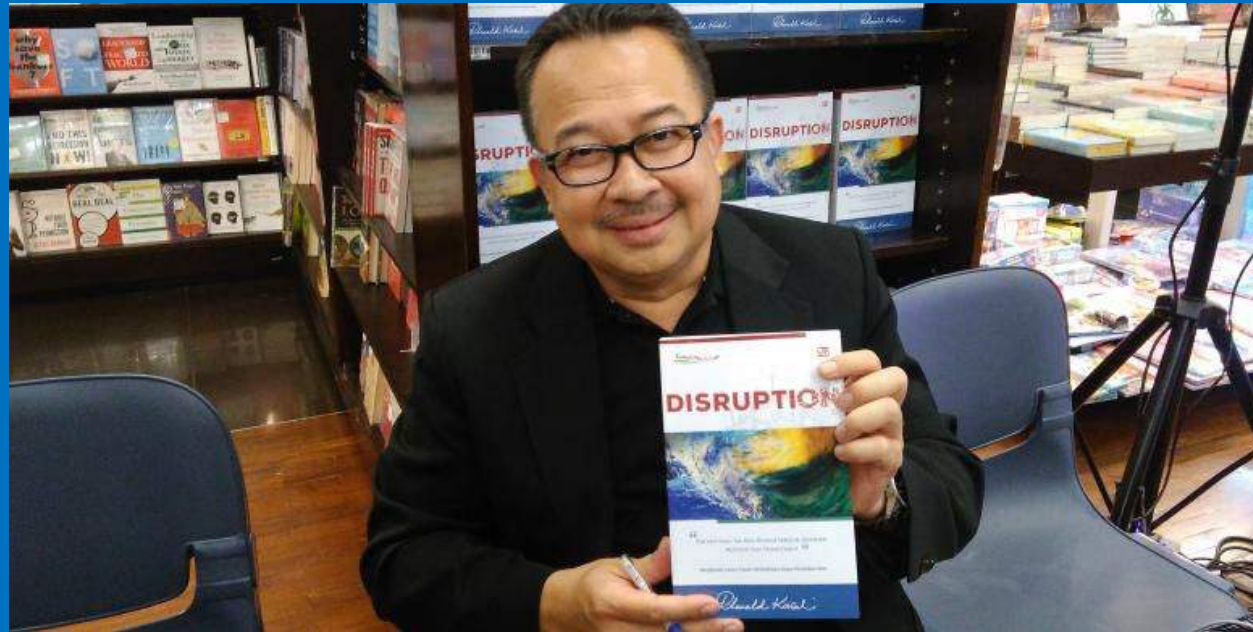


# ***DISRUPTION***

Prof. Clayton S. Christensen

Definisi/arti kata '**disrupsi**' di Kamus Besar Bahasa Indonesia  
(KBBI) adalah n hal tercabut dari akarnya.

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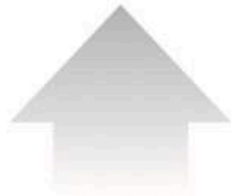


Disrupsi yaitu mengubah bukan hanya "cara" berbisnis, melainkan juga fundamental bisnisnya. Mulai dari struktur biaya sampai ke budaya, dan bahkan ideologi industri.

Disrupsi terjadi akibat perubahan cara-cara berbisnis yang dulunya sangat menekankan owning (kepemilikan) menjadi sharing (saling berbagi peran, kolaborasi resources).

## Today: Digital Disruption in All Industries

Business Models Adapt to People



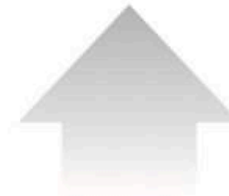
airbnb

JETSUITE

FLIPKEY



Square

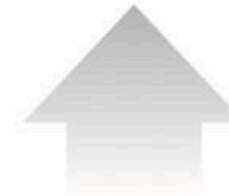


UBER

lyft



DiDi



NETFLIX

Spotify

oculus



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Disrupsi di bidang pendidikan:  
kelas dan sertifikasi online

## Ed Tech Players Disrupting Education

duolingo

edmodo

INSTRUCTURE

descomplica.

pluralsight  
hardcore developer trainir

simplilearn  
your pace, your place

toppr

schoolology

coursera

Desire2Learn

udemy

UDACITY  
Learn. Think. Do.

一起作业  
17zuoye.com

KNEWTON

open english

alt school

Kaltura

noredink

Craftsy  
Learn it.  
Make it.

education.com

TutorGroup

# LIB<sup>e</sup><sub>x</sub>

Disrupsi di bidang pendidikan

Group of 8			Others	
				
 Australian National University	 THE UNIVERSITY OF MELBOURNE	 MONASH University	 Curtin University	 MACQUARIE University SYDNEY AUSTRALIA
 THE UNIVERSITY of ADELAIDE	 THE UNIVERSITY OF WESTERN AUSTRALIA			
 THE UNIVERSITY OF QUEENSLAND AUSTRALIA	 UNSW SYDNEY			 OPEN 2 STUDY
	 THE UNIVERSITY OF SYDNEY		 QUT	 Flinders UNIVERSITY
			 RMIT UNIVERSITY	 Griffith UNIVERSITY
				 JAMES COOK UNIVERSITY AUSTRALIA

LIB<sup>e</sup><sub>x</sub>

“Ukuran dari kecerdasan adalah  
kemauan untuk berubah  
(*change*).”

Stephen Hawking





\*tidak terkecuali kepada  
perpustakaan dan pustakawan.



Bagaimana agar pustakawan bisa survive di era digital?

# **Transformasi Perpustakaan**

**(dan pustakawan)**

## ***4.0 Industrial Revolution***

Industri 4.0 adalah transformasi yang intensif mulai dari manufaktur dan industri lain dalam lingkungan yang terhubung:

- *data,*
- *people,*
- *processes,*
- *services,*
- *Systems*

Dengan pemanfaatan informasi yang dapat ditindaklanjuti sebagai cara dan sarana untuk mewujudkan industri cerdas dan ekosistem inovasi dan kolaborasi industri.



## 4.0 Industrial Revolution

Source: Ankaha



### 1st Industrial Revolution WATER & STEAM

Steam and water power replace human and animal power with machines.



### 2nd Industrial Revolution ELECTRICITY

Electricity, internal combustion engines, airplanes, telephones, cars, radio, and mass production.



### 3rd Industrial Revolution AUTOMATION

Electronics, the internet and IT used to further the automation of mass production.



### 4th Industrial Revolution CYBER-PHYSICAL SYSTEMS

Driverless cars, smart robotics, materials that are lighter and tougher, and a manufacturing process built around 3D printing.

## Revolusi Industri 4.0

Sangat berkaitan dengan analisa, data, dan informasi. Hal ini yang sudah ada pada pustakawan – hanya saja perlu ditingkatkan dari knowledge yang sudah dimiliki.

## Skill yang diharapkan oleh Industri 4.0

### in 2020

1. Complex Problem Solving
2. Critical Thinking
3. Creativity
4. People Management
5. Coordinating with Others
6. Emotional Intelligence
7. Judgment and Decision Making
8. Service Orientation
9. Negotiation
10. Cognitive Flexibility

### in 2015

1. Complex Problem Solving
2. Coordinating with Others
3. People Management
4. Critical Thinking
5. Negotiation
6. Quality Control
7. Service Orientation
8. Judgment and Decision Making
9. Active Listening
10. Creativity

## Penerapan Skill Masa Depan Pustakawan Pada Industri 4.0

1. Mampu membuat analisa bisnis berdasarkan koleksi terbitan dan database **kepada user**.
2. Mampu membuat kesimpulan analisa data menggunakan teknologi/platform big data, seperti pemrograman PYTHON/R, dan Azure **sebagai terbitan berkala perpustakaan**.
3. Mampu membuat story-telling digital berbentuk media foto/video mengenai program perpustakaan yang kreatif **untuk calon user**.
4. Membantu integrasi perpustakaan **agar terdaftar di database nasional**.
5. Mampu **berbaur dengan multi-disiplin ilmu** untuk menyelesaikan masalah dengan pendekatan literasi informasi.



## Benchmark 1

Mengubah status quo perpustakaan menjadi tempat yang lebih dinamis, terbuka, dan tempat pusat kegiatan masyarakat.

## Benchmark 1



Maven Mesh, Thailand



ADB Library, Philippines

## Benchmark 2

Perpustakaan diharapkan menjadi tempat kreatifitas dan *sharing*, hingga menyediakan fasilitas penunjang menuju revolusi industri ke-4 bagi masyarakat.

*More than books.*



## Benchmark: Makedonia Taman Tumbuh, Jakarta



Benchmark: Singapura akan mewajibkan materi AI sebagai dasar kurikulum pendidikan untuk menghadapi revolusi industri 4.0



The screenshot displays the AI Singapore website. The header features the AI Singapore logo, a search bar, and navigation links: Home, AI Research, AI Technology, AI Innovation, Events, News & Media, Contact Us, and Kelabertiv. The main banner is titled 'AI Resources' with the subtitle 'AI learning resources and AI tools to accelerate your AI learning journey.' Below this are five red buttons: 'Featured resources', 'Courses', 'Books', 'Demos', and 'Tutorials'. The lower section shows a news article under the 'Technology' category, titled '10,000 in Singapore to be taught AI basics for free'. The article text states: 'The AI for Everyone programme is one of two initiatives unveiled by AI Singapore to give a boost to the local tech scene.'

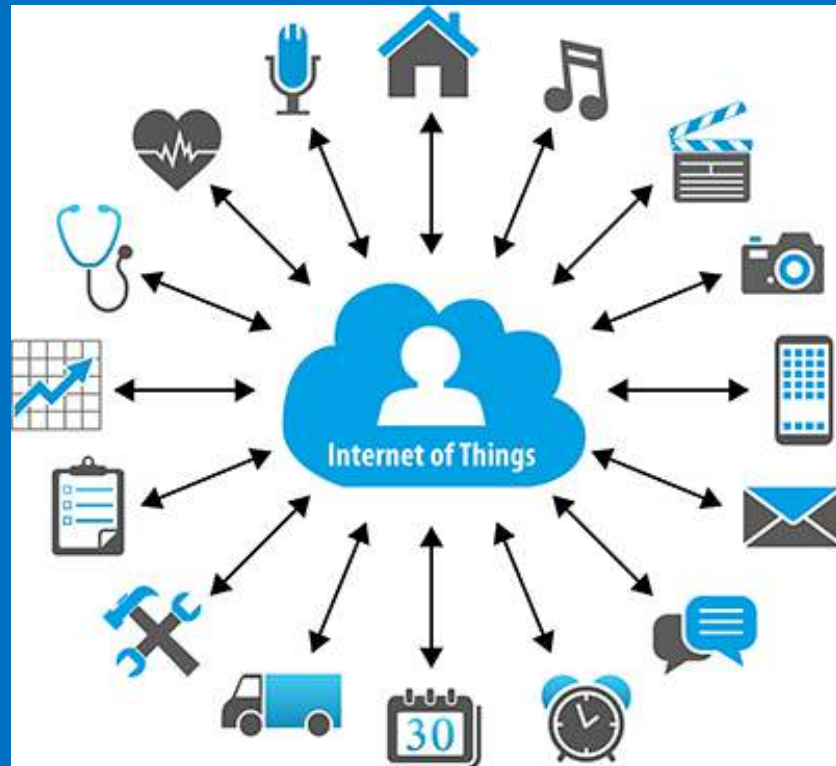
Source: Channel News Asia



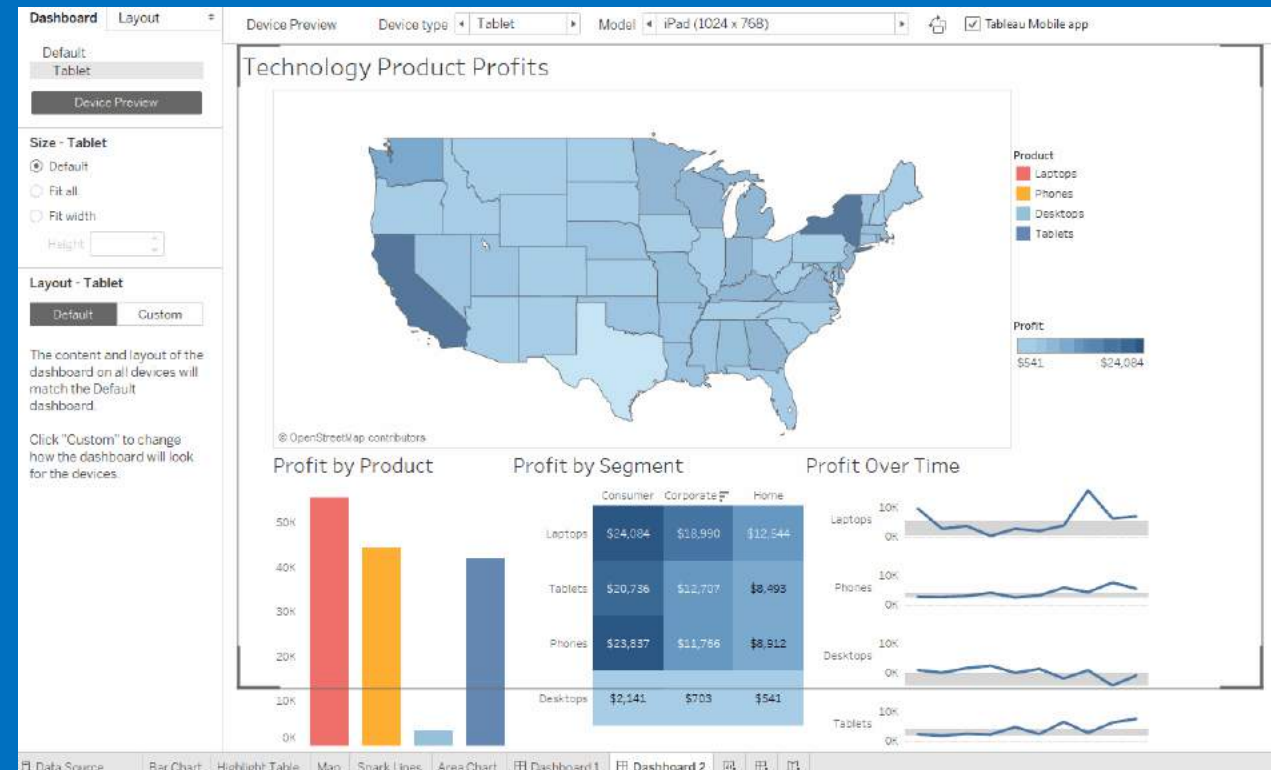
## Benchmark 3

Perpustakaan menjadi pusat data dan riset yang mengaplikasikan informasi gelombang baru (*new wave information*) selain dari *database* jurnal/koleksi, juga melalui media sosial, data sensor (IOT), API, dsb.

## Benchmark 3

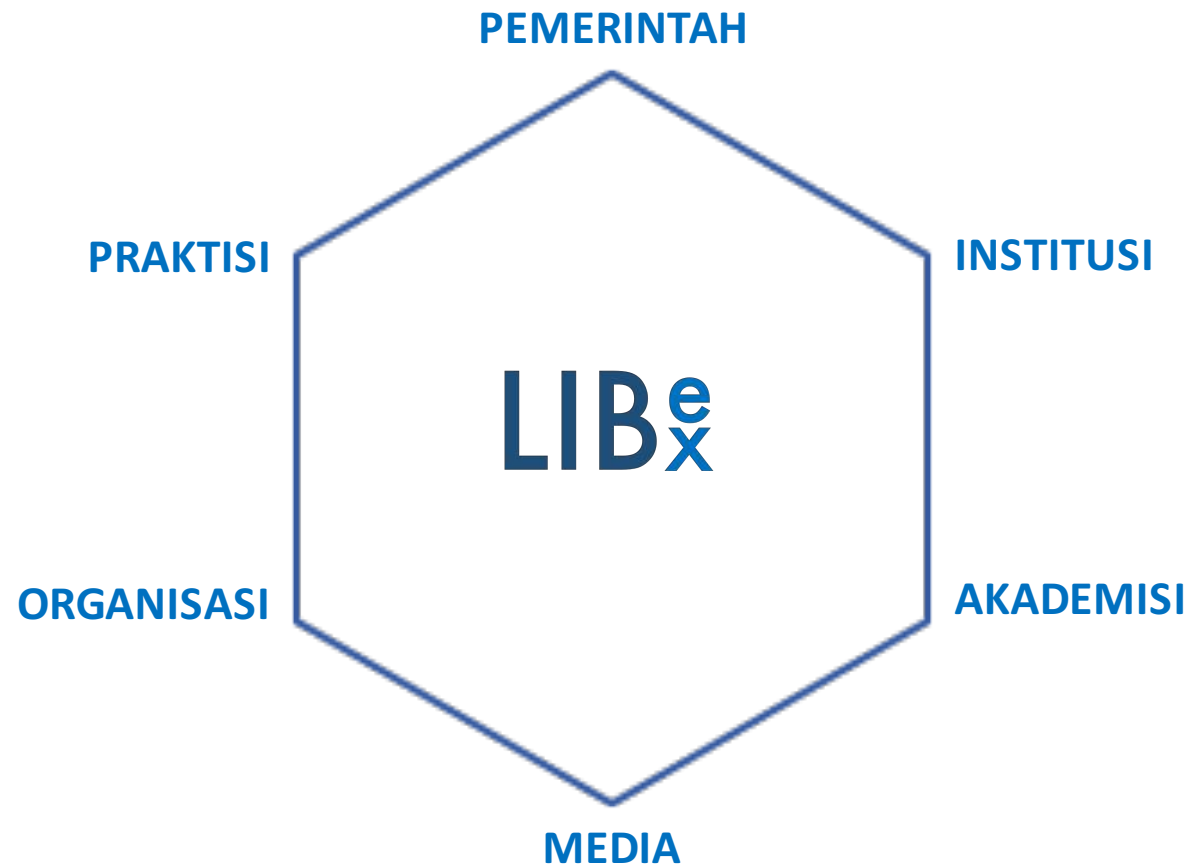


Internet of Things



Penyajian Data pada Dashboard

# Pentingnya Kolaborasi untuk Membangun Eksistensi Perpustakaan dalam Menghadapi Industri 4.0



# Membangun Minat dan Motivasi Pada Ilmu Perpustakaan Untuk Generasi Millenial

Membangun Jaringan  
Komunitas

Kolaborasi dengan  
Disiplin Ilmu Lain

Budayakan Membaca  
Situasi dan Tren Terkini

Membuat Vlog Pustaka



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## LIBex Inspire (Research and Article)

A science development platform for library science, data, information, and archives. The LIBex Inspire platform links research resources from individual researchers as well as in groups such as organizations and institutions with an interest in the development of such fields.

The outcomes of this platform are in the form of journals, scientific articles, and various popular writings. Example feature of LIBex Inspire is "Research-Inspire" which serves to display suggestions for research topic trends from the users.

A black and white photograph of a library interior. Several people are seated at long tables, working on laptops. Bookshelves filled with books are visible in the background.

Library and  
Information  
Science

A black and white photograph showing a close-up of a person's hands using a laptop. The person is holding a smartphone in their left hand while their right hand is on the laptop keyboard.

Digitalisation

A black and white photograph of a makerspace. Several people are working at tables equipped with various tools, including 3D printers and workbenches.

Makerspace

A black and white image featuring a globe with a network of glowing lines and nodes, representing data connections and web science.

Big Data  
and Web Science

A black and white image showing a complex data visualization with multiple overlapping line graphs and charts, representing data-driven journalism.

Data  
Driven  
Journalism

A black and white photograph of a co-working space. Two people are seated at a table, working on laptops. The space is open and modern.

Co-Working  
Space

A black and white image of a human head silhouette filled with various icons representing artificial intelligence, such as a lightbulb, a gear, a network, and a brain.

Artificial  
Intelligence

A black and white image showing a series of overlapping, transparent cubes or blocks, representing the concept of blockchain technology.

Blockchain

A black and white photograph of a landscape with a cloudy sky and a body of water, representing the sharing economy.

Sharing  
Economy





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## Contact Us

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