



الجامعة الإسلامية العالمية ماليزيا  
INTERNATIONAL ISLAMIC UNIVERSITY MALAYSIA  
بُونْدُورِيسْتِي اِسْلَامْ اِنْتَارَا اِنْحِسَا مِلْدِسِيَا

# ISLAMIC PERSPECTIVE ON INFORMATION & COMMUNICATION TECHNOLOGY AND EDUCATION

By

**Prof. Dr. Mohamad Fauzan Bin Noordin**

**Kulliyah of Information & Communication Technology**

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**Chairman of Cybersecurity Cluster Malaysia Crime Prevention  
Foundation**

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- Bachelor of Computer Science –Univ. of Missouri at Kansas City – 1989
- MBA- Central of Missouri State Univ. USA- 1991
- PhD in IT – Univ. of Wales, UK -1997
- Director of IIIT(International Institute of Islamic Thought) East and South East Asia (2019-2021)
- Head of Cybersecurity, Malaysian Crime Prevention Foundation (2019-2020)
- Head of ICT and Islam Research Lab
- Adjunct Professor Swinburne Technology, Sarawak Branch 2019-2020
- Adjunct Professor University Sultan Sharif Ali, Brunei 2017-2019
- Senior Academic Fellow IIIT 2016-2019
- President Academic Staff Association IIUM 2016-2018
- Dean, Center for Postgraduate Studies – 2012-2013
- Dean, Corporate Strategy and Quality Assurance -2011 - 2012
- Director of Center of E-Learning – 1999-2000
- Director of Educational Technology-2000-2001
- Director of Information Technology-2001-2004
- Visiting Scholar at Univ. of Bahrain 2004-2005
- Dean – College of IT, Al- Madinah International University, 2007
- Director of Collaborative Technology Center- 2008-2010
- Visiting Scholar–Jazan University- 2010-2011
- Keynote Speaker at NOORIC2013@Madinah,KSA, Headline Speaker@Cloud Computing, Singapore 2013, Cloud Asia Hong Kong 2014
- Presented paper at International Conferences at (Ohio, San Jose, Herndon, USA; Madrid, Spain; Helsinki, Finland ;Kristiansand, Norway, Kuala Lumpur, Malaysia)
- Invited Speaker at International Conferences at (Dusseldorf, Germany; Banff, Canada; Taoschiung, Taiwan, Kanazawa Japan, Cloud Asia, Singapore)
- Published and presented more than 100 papers in National and International Journals, books and conferences.

# ict and Islam

Mohamad Fauzan Noordin

IUM Press

ICT DAN ISLAM

PROF. DR. MOHAMAD FAUZAN NOORDIN



## TEXTBOOKs My Background

- Mohamad Fauzan Noordin

# Pengurusan dalam Islam

Menghayati Prinsip dan Nilai Qurani

Akademi Pengurusan YPEIM

## ICT AND ISLAM

Mohamad Fauzan Noordin



... research for planning and implementing knowledge management within an organization.

Civilizations are built on knowledge capital and knowledge-based societies. It is the intrinsic drive towards knowledge sharing among to build a knowledge-based society. Social media facilitates the interactions among people forming the knowledge-based society. However, there are concerns about abuse of social media. Islam offers solutions based on interaction in social media among members of the society and organization in benefiting from the knowledge management tools.

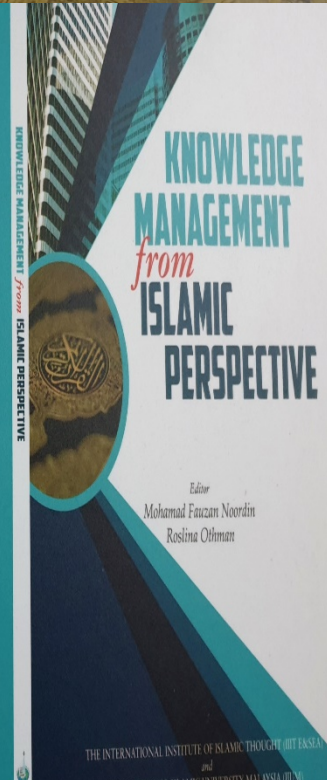
The future of knowledge management from an Islamic perspective continues into devices and infrastructure. Due to high cost and less mature research that is carried out to propose and develop a solid plan for inventing devices and building an infrastructure for knowledge management. Even though knowledge society has been founded in Malaysia through communication technologies, leaders and employees must recognize that spiritual strength is crucial in deploying intelligence and managing emotional adaptation to change.



**MOHAMAD FAUZAN NOORDIN** received his Ph.D. from the University of Idaho, U.S.A. 1997, MBA from the Central Missouri State University, U.S.A. 1995 and M.Sc. (Corporate Journalist) from the University of Malaya, Kuala Lumpur, Malaysia 1998. He is involved in knowledge technology of Islam, information and communication technology, International Islamic University Malaysia. His book entitled "ICT and Islam" has been used as the textbook in several universities and printed for second edition. He specializes in knowledge technology, Management Information System (MIS), ICT and Islam, Social Networking, Cloud Computing, Learning, Knowledge Management and Wisdom of ICT. In terms of publishing, he has contributed articles in local, national and international journals. His research on Multi-lingual Search Engine and Retrieval System won the Best Research for University year 2005 and 2007. He has served as the International Intervention and Technology (IIT) Director 2008. He has often been invited for national TV and radio stations and interviewed by national newspapers as an expert on ICT issues.



**ROSILINA OTHMAN** is a Professor of the Department of Library and Information Science, Faculty of ICT, International Islamic University Malaysia (IIUM), Ottawa. She is currently the Head, Semantic Body of Knowledge and Technology Research Unit (SBK). She has supervised and led research projects under ERGS, ERGS, RIGGS, MGS, TechnoFund, MGS, RIGGS and International grants. She is the Founder for WikikamQ&A search engine, SFS system for spiritual enhancement, and Novelty for innovation fund. She is contributing to the automation of search engines and open access for Islamic studies, Islamic banking and Finance, and Islamic Social Life. She has supervised the researches for a variety of just for developing systems in Islamic Finance domain. Her areas of research interest include semantic technology, ontology for Islamic studies, Islamic search engines, data analytics and knowledge management audit. She is the Vice Chairman for PCCAMP (2017-2019).



# Content

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Philosophy of ICT in Islam

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New Technologies and Digital Future

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Social Media and Maqasid Syariah

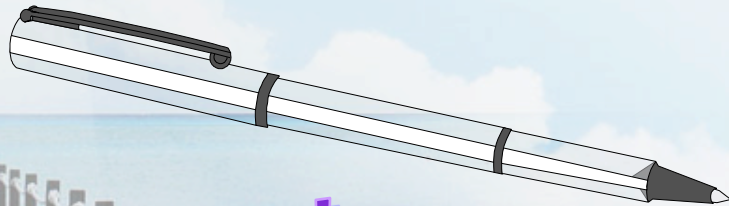
4

Q&A

# Philosophy of ICT in Islam based on al-Quran

“Proclaim! (or Read) in the name of thy Lord and Cherisher, who created, created man out of (mere) clot of congealed blood. Proclaim! And thy Lord is most bountiful – He who taught (the use of) the pen. Taught man that which he knew not”

- Surah *al-Alaq*: 1- 5



**Worth Noting!**

The first *surah* revealed has already mentioned about ‘computer’

# Familiar with this foto



# Different angle



**Matt Dawson**  
@SaintRPh



Prince William inadvertently created a new meme



# GETTING RICH FROM FAKE NEWS



The image is a screenshot of the BBC News website. At the top, the BBC logo is on the left, followed by a 'Sign in' button with a speech bubble icon, a notification bell icon, and a navigation menu with links for 'News', 'Sport', 'Weather', 'iPlayer', 'TV', and 'Radio'. Below this is a red banner with the word 'NEWS' in white. Underneath the banner is a secondary navigation bar with links for 'Home', 'UK', 'World', 'Business', 'Politics', 'Tech', 'Science', 'Health', 'Education', and 'Entertainment'. The main content area features the word 'Magazine' underlined. The article title 'The city getting rich from fake news' is prominently displayed in a large, bold, black font. Below the title, the author's name 'By Emma Jane Kirby' and 'BBC News' are listed. At the bottom left of the article preview, there is a clock icon, the date '5 December 2016', and the word 'Magazine'. At the bottom right, there is a green share icon and the word 'Share'.

**BBC** Sign in  [News](#) [Sport](#) [Weather](#) [iPlayer](#) [TV](#) [Radio](#)

## NEWS

[Home](#) | [UK](#) | [World](#) | [Business](#) | [Politics](#) | [Tech](#) | [Science](#) | [Health](#) | [Education](#) | [Entertainment](#)

Magazine

### The city getting rich from fake news

By Emma Jane Kirby  
BBC News

 5 December 2016 | Magazine  Share



# 1,800EU for Fakery

After copying and pasting various articles, he packaged them under a catchy new headline, paid Facebook to share it with a target US audience hungry for Trump news and then when those Americans clicked on his stories and began to like and share them, he began earning revenue from advertising on the site.

Goran says he worked on the fakery for only a month and earned about 1,800 euros (£1,500) - but his mates, he claims, have been earning thousands of euros a day. When I ask him if he worries that his false news might have unfairly influenced voters in America, he scoffs.

"Teenagers in our city don't care how Americans vote," he laughs. "They are only satisfied that they make money and can buy expensive clothes and drinks!"

# FAKE NEWS Generate Income \$10,000/Month

How much money can you bring in by making stuff up and putting it on the Internet? “I make like \$10,000 a month from AdSense,” Paul Horner, a prolific, Facebook-focused fake-news writer told us this week. And among a growing group of Macedonian teenagers who see fake-news sites as a way to make easy money from American gullibility, the most successful can make about \$5,000 a month, [BuzzFeed reported](#).

# Cambridge Analytica

The scandal that happened in 2015 revealing a data leakage on Facebook via a quiz application, where the company has sold the information of 87 million Facebook user to a political consulting firm in U.S to support the election campaign of Donald's Trump and Brexit.

(Paasonen, 2018).

# 400 million phone number hacked

Forbes

Billionaires

Innovation

Leadership

Money

Business

Small Business

Lifestyle

10,683 views | Sep 5, 2019, 01:45am

## Unsecured Facebook Databases Leak Data Of 419 Million Users



**Davey Winder** Senior Contributor @

Cybersecurity

*I report and analyse breaking cybersecurity and privacy stories*

f

t

in



known so far.

### How did more than 400 million Facebook user phone numbers get exposed?

Databases that, in total, detailed the phone numbers of 419 million users, linked to their Facebook account IDs, were found to be unprotected by any password. This meant that anyone looking for such things could find, and access, those databases. Breaking the news at [TechCrunch](#), Zack Whittaker revealed that multiple databases across several geographies included "133 million records on U.S.-based Facebook users, 18 million records of users in the U.K., and more than 50 million records on users in Vietnam."

Each of these data records contained both the Facebook ID unique to every member and the phone number that was listed as being connected to that

# Washington Post : Trump & Lies

Fact Checker • Analysis

## President Trump has made 12,019 false or misleading claims over 928 days

By **Glenn Kessler**, **Salvador Rizzo** and **Meg Kelly**

August 12, 2019 at 3:00 p.m. GMT+8

President Trump's proclivity for spouting exaggerated numbers, unwarranted boasts and outright falsehoods has continued at a remarkable pace. As of Aug. 5, his 928th day in office, he had made 12,019 false or misleading claims, according to [the Fact Checker's database](#) that analyzes, categorizes and tracks every suspect statement the president has uttered.

Trump [crossed the 10,000 mark on April 26](#), and he has been averaging about 20 fishy claims a day since then. From the start of his presidency, he has averaged about 13 such claims a day.

# ASEAN Region Has Become a Prime Target For Cyberattacks

## The biggest data breaches in the ASEAN region

Recent important data breaches in Southeast Asia evidence the region's weaknesses in the areas of cybersecurity and data protection

According to AT Kearney's report "[Cybersecurity in ASEAN: An Urgent Call to Action](#)", ASEAN countries are being used as launchpads for cyberattacks, either as vulnerable hotbeds of unsecured infrastructures where numerous computers can be infected easily for large-scale attacks, or as centres for a single point of attack to gain access to the hubs' global connections.

The report also found out that Malaysia, Indonesia and Vietnam are global operational bases for major blocked suspicious web activities, up to 3.5 times the standard ratio, making them hubs for hackers to launch malware attacks.

# Fake News Spikes In Indonesia Ahead of Presidential Elections 2019

## Terkait Pemilu 2019, Kominfo Temukan 1.645 Hoaks Sejak Agustus 2018

Kompas.com - 29/04/2019, 06:23 WIB

Editor: **Diamanty Meiliana**

**JAKARTA, KOMPAS.com** - Kementerian Komunikasi dan Informatika menemukan 1.645 konten **hoaks** sejak bulan Agustus 2018 hingga 25 April 2019. Penyebaran informasi hoaks ini terkait Pemilu Serentak 2019.

"**Hoaks** yang kami identifikasi, kami klasifikasi dan validasi menangkal 1.645 hoaks dari bulan Agustus tahun lalu," kata Menteri **Rudiantara**, Minggu (28/4/2019), dikutip dari [Tribunnews.com](http://Tribunnews.com).

Menteri Rudiantara memaparkan, jumlah hoaks setiap bulannya, khususnya yang berkaitan seputar pemilu 2019, mengalami peningkatan yang cukup signifikan.

# TEMUAN ISU HOAKS

Agustus 2018 - April 2019

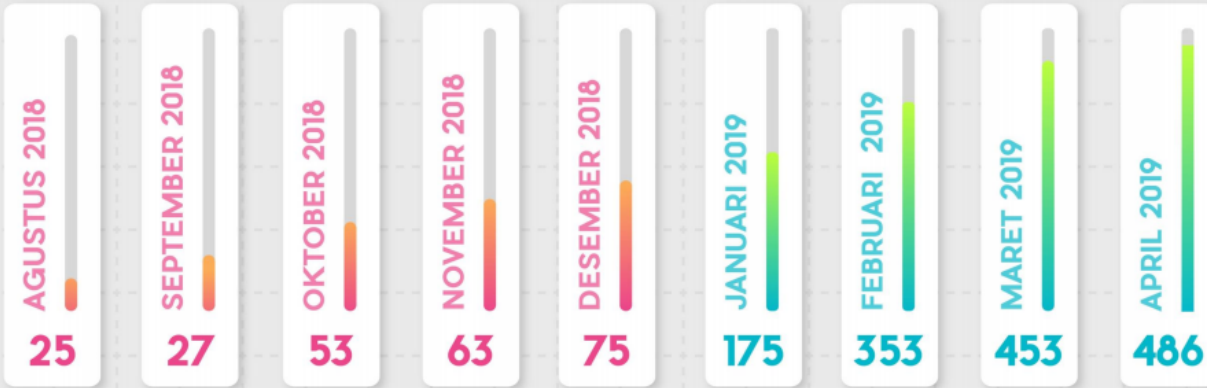
**TOTAL : 1.731**

## KOMINFO :

### Received Hoax

### August 2018-

### April 2019



# TEMUAN ISU HOAKS PER KATEGORI

Agustus 2018 - April 2019

**TOTAL : 1.731**





# KOMINFO : Received 733 Hoax

## Content Complaints distributed via **WhatsApp**



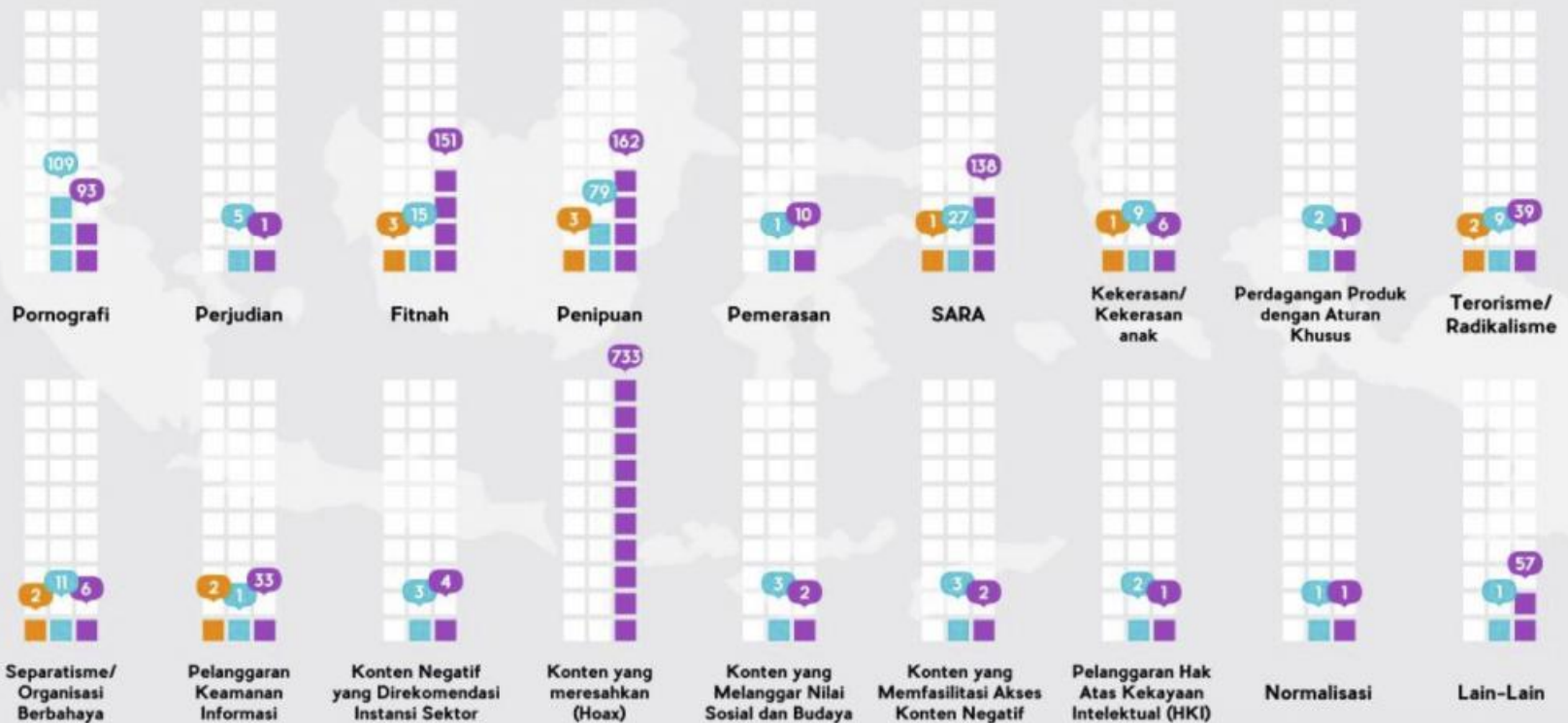
### Total Aduan Konten Negatif di Aplikasi Whatsapp 2016 - 2018

2016 2017 2018

Total Aduan 2016  
**14**

Total Aduan 2017  
**281**

Total Aduan 2018  
**1440**



# Uber, Facebook, Alibaba, Airbnb, Skype, WeChat, SocietyOne, NetFlix, Apple, & Google

## DIGITAL DISRUPTION

has already happened



World's largest taxi company owns no taxis

▶ UBER



Largest accommodation provider owns no real estate

▶ AIRBNB



Largest phone companies own no telco infra

▶ SKYPE / WECHAT



World's most valuable retailer has no inventory

▶ ALIBABA



Most popular media owner creates no content

▶ FACEBOOK



Fastest growing banks have no actual money

▶ SOCIETY ONE



World's largest movie house owns no cinemas

▶ NETFLIX



Largest software vendors don't write the apps

▶ APPLE / GOOGLE

# Digital Around The World

JAN  
2019

## DIGITAL AROUND THE WORLD IN 2019

THE ESSENTIAL HEADLINE DATA YOU NEED TO UNDERSTAND GLOBAL MOBILE, INTERNET, AND SOCIAL MEDIA USE

TOTAL  
POPULATION



**7.676**  
BILLION

URBANISATION:  
**56%**

UNIQUE  
MOBILE USERS



**5.112**  
BILLION

PENETRATION:  
**67%**

INTERNET  
USERS



**4.388**  
BILLION

PENETRATION:  
**57%**

ACTIVE SOCIAL  
MEDIA USERS



**3.484**  
BILLION

PENETRATION:  
**45%**

MOBILE SOCIAL  
MEDIA USERS



**3.256**  
BILLION

PENETRATION:  
**42%**

7

**SOURCES:** POPULATION: UNITED NATIONS; U.S. CENSUS BUREAU; MOBILE: GSMA INTELLIGENCE; INTERNET: INTERNETWORLDSTATS; I.U.: WORLD BANK; QA: WORLD FACTBOOK; EUROSTAT; LOCAL GOVERNMENT BODIES AND REGULATORY AUTHORITIES; MEDIA: MEDIA.ORG; REPORTS IN: REPUTABLE MEDIA; SOCIAL MEDIA PLATFORMS: SELF-SERVING ADVERTISING TOOLS; PRESS RELEASES AND INVESTOR EARNINGS ANNOUNCEMENTS; ARAB SOCIAL MEDIA REPORT; TECHRASA; NICO ADHAR; ROYAL I.U. (ALL LATEST AVAILABLE DATA IN JANUARY 2019)

 **Hootsuite** 

# When and Who?



## Founders

**1998**

Larry Page  
Sergey Brin

**2004**

Mark Zuckerberg  
Dustin Moskovitz  
Eduardo Saverin  
Andrew McCollum  
Chriss Hughes

**1999**

Peng Lei  
Jack Ma

**1994**

Jeff Bezos

**2009**

Travis Kalanick  
Garrett Camp

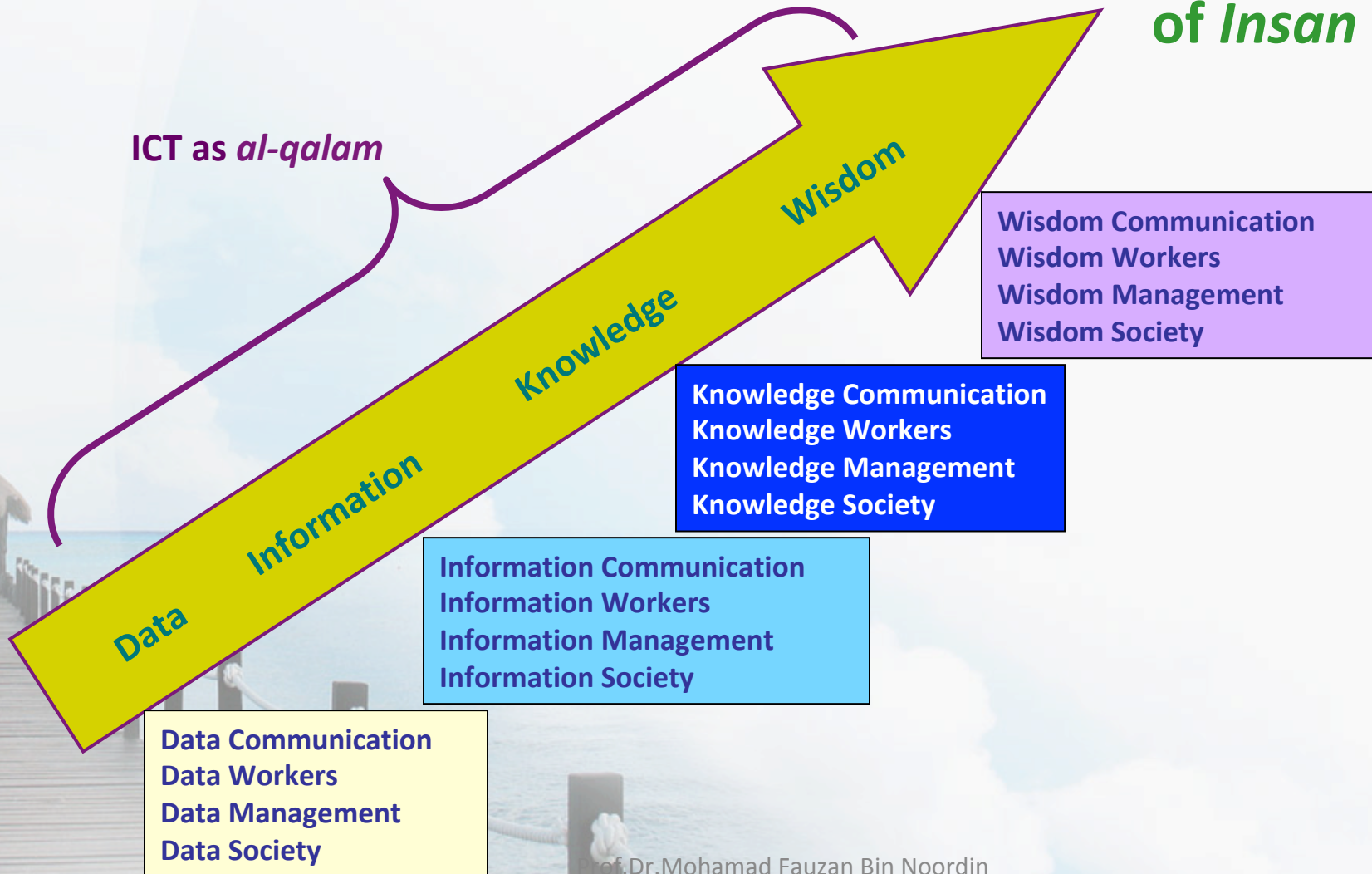
**2008**

Brian Chesky  
Joe Gebbia

# Conclusion

## Journey of *Insan*

ICT as *al-qalam*



قَالُوا سُبْحَانَكَ لَا عِلْمَ لَنَا إِلَّا مَا عَلَّمْتَنَا إِنَّكَ أَنْتَ الْعَلِيمُ الْحَكِيمُ ﴿٣٢﴾

### Surah Al-Baqarah: 32

They said, "Exalted are You; we have no knowledge except what You have taught us. Indeed, it is You who is the Knowing, the Wise."

