

BADRI MUNIR SUKOCO

Forbes / Opinion / #BigBusiness

NOV 29, 2016 @ 01:37 PM



Thanks To 'Fight For \$15' Minimum Wage, McDonald's Unveils Job-Replacing Self-Service Kiosks Nationwide















Capital Flows, CONTRIBUTOR

Guest commentary curated by Forbes Opinion. Avik Roy, Opinion Editor. FULL BIO >

Opinions expressed by Forbes Contributors are their own.







McDonald's hits all-time high as Wall Street cheers replacement of cashiers with kiosks

- Cowen says McDonald's will upgrade 2,500 restaurants to its "Experience of the Future" technology by year-end, which includes digital ordering kiosks.
- The firm raises its rating on McDonald's to outperform from market perform and price target for the shares to \$180 from \$142.
- Same store sales estimate for 2018 raised to 3 percent from 2 percent.

Tae Kim | @firstadopter

Published 11:30 AM ET Tue, 20 June 2017 | Updated 4:22 PM ET Thu, 22 June 2017



News > Business > Business News

Wendy's replacing workers with machines because of rising wage cost

Wendy's operates more than 6,500 restaurants in the US and in 29 other countries worldwide

Hazel Sheffield | Wednesday 18 May 2016 10:15 BST | D comments

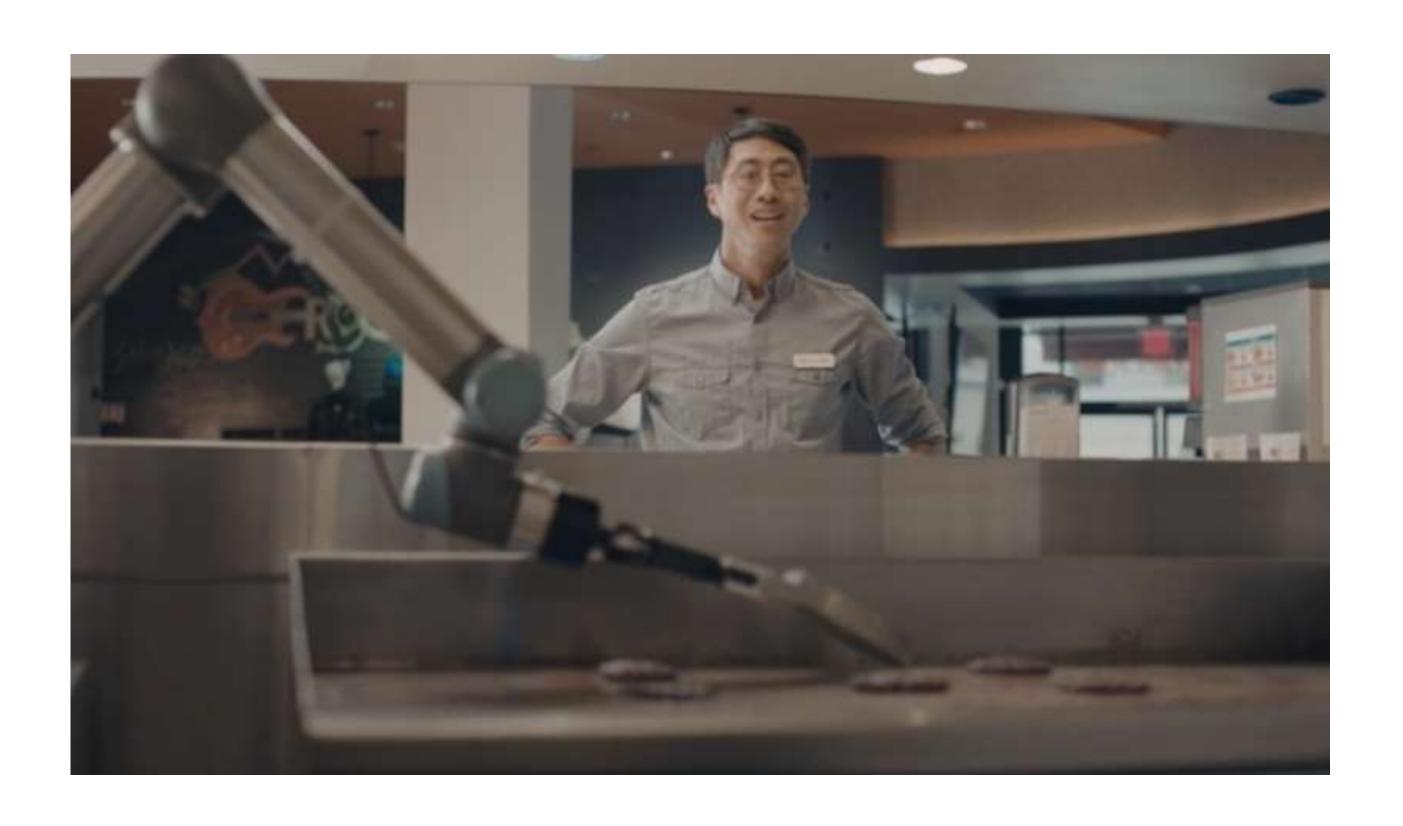


Burger-making robot, 'Flippy,' that cooks the perfect patty every time set to replace human workers in 50 California restaurants by 2018

- The robot is fitted with a 6-axis arm and a claw-like tool to grab and flip burgers
- It uses AI to determine when they're done and alert staff to finish preparation
- It will launch in 50 CaliBurgers sooner than expected after a \$3M investment

By SAGE LAZZARO FOR DAILYMAIL.COM

PUBLISHED: 22:20 BST, 13 September 2017 | UPDATED: 22:25 BST, 13 September 2017



The Fourth Industrial Revolution World Economic Forum https://www.youtube.com/watch?v=SCGV1tNBoeU

CONTOH PEKERJAAN YANG AKAN HILANG KARENA MASA DEPAN OTOMASI



Cashier

Accountants

Most factory workers

Security Guard

Drivers

Retail Salesperson

Creativity is the New Economy

Richard Florida (2012)



PERINGKAT CREATIVE CLASS

	PERINGKAT	NEGARA	PROPORSI CREATIVE- CLASS
	1	Luxembourg	53.68
Tiga _ teratas	2	Bermuda	47.96
	3	Singapore	47.3
Negara dengan	34	United States	32.61
populasi besar	61	Brazil	20.12
	49	Malaysia	24.05
	56	Philippines	21.33
Negara _ di ASEAN	81	Thailand	9.85
	82	Vietnam	9.83
	86	Indonesia	7.95

Sumber: Martin Prosperity Institute (2015)

CREATIVE CLASS



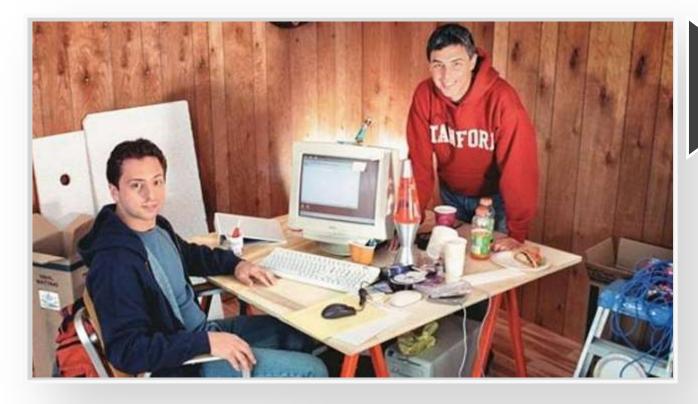
Pencipta kreasi baru: Ilmuwan, *Engineers*, *Artist* dan lainlain

Jasa kompetensi: Pengacara, Dokter, Manajer dan lainnya.



Sumber: Florida (2012)

SUPER-CREATIVE CORE



Larry Page dan Sergey Brin (Google) Edwin Catmull (Pixar)



Sehat Sutardja (Marvell)





Nadiem Makarim (Go-Jek)



Succeeding in the New Global Economy

U.S. workers face higher risk of being replaced by robots. Here's why

by Alanna Petroff @Alanna Petroff

FORTUNE | Tech

POINTCLOUD

Automation, Robots, and Job Losses Could Make Universal Income a Reality

Barb Darrow May 24, 2017









Google Has Started Hiring More People Who Didn't Go To College

Max Nisen ① Jun. 20, 2013, 2:58 PM 6 356,755



Ernst & Young Removes University Degree Classification From Entry Criteria As There's 'No Evidence' It Equals Success

© 04/08/2015 14:55 | Updated 17 August 2017

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theguardian

The death of universities Terry Eagleton

Academia has become a servant of the status quo. Its malaise runs so much deeper than tuition fees

THE CHRONICLE OF HIGHER EDUCATION

THE CHRONICLE REVIEW

The Slow Death of the University

By Terry Eagleton | APRIL 06, 2015 PREMIUM CONTENT FOR SUBSCRIBERS. SUBSCRIBE TODAY

Forbes / Education / #OnCampus

OCT 6, 2016 @ 10:24 AM

8,979 @

The Death Of A University? The Sad Story Of Chicago State













CCAP, CONTRIBUTOR

We are dedicated to researching the rising costs in higher education. FULL BIO >

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Apa yang harus dilakukan Universitas di Indonesia agar Relevan dengan Revolusi Industri 4.0?





STRATEGIC ORIENTATION





ORGANIZATIONAL AND BUSINESS RESOURCE BASE

SENSING

- Identification of target markets

Customer and supplier

- Transactive memory system

Processes to direct

LEVEL 2 BUSINESS

LEVEL 3

CORPORATE

- LEVEL 1
 INDIVIDUAL
- Sensemaking

internal R&D

contacts

SEIZING

- Recognizing inflexion points and complementarities
- Selecting organizational boundaries
- Business model decisions
- Local leadership
- Open innovation
- Heuristics

RECONFIGURING

- Investment into new business fields
- Divestment of business units
- Alliancing
- Adjustments of value propositions
- Changes in marketing programs
- Endowment effect in decision making





ENABLERS

Sumber: Wilden, Devinney, and Dowling (2016)

DIKOTOMI HOUSE OF DCs

(Florida, 2012)

Creative Profesionals

Super-creative Core

PERAN PERGURUAN TINGGI

(March, 1991)

Meng**eksploitasi** pengetahuan



Proses kontinyu



Pasar sekarang





Mengeksplorasi peluang baru



Rekonfigurasi model bisnis



Pasar baru





MARKET-DRIVING





STRATEGIC ORIENTATION

MARKET-DRIVEN

MARK

ORGANIZATIONAL AND BUSINESS

SENSING

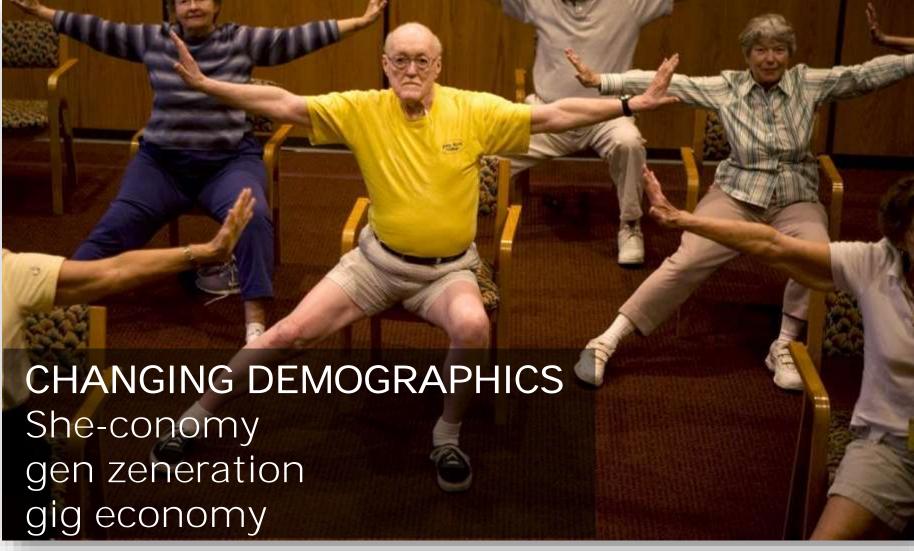
SEIZING

LEVEL 3 CORPORATE

- Identification of target markets
- Transactive memory system

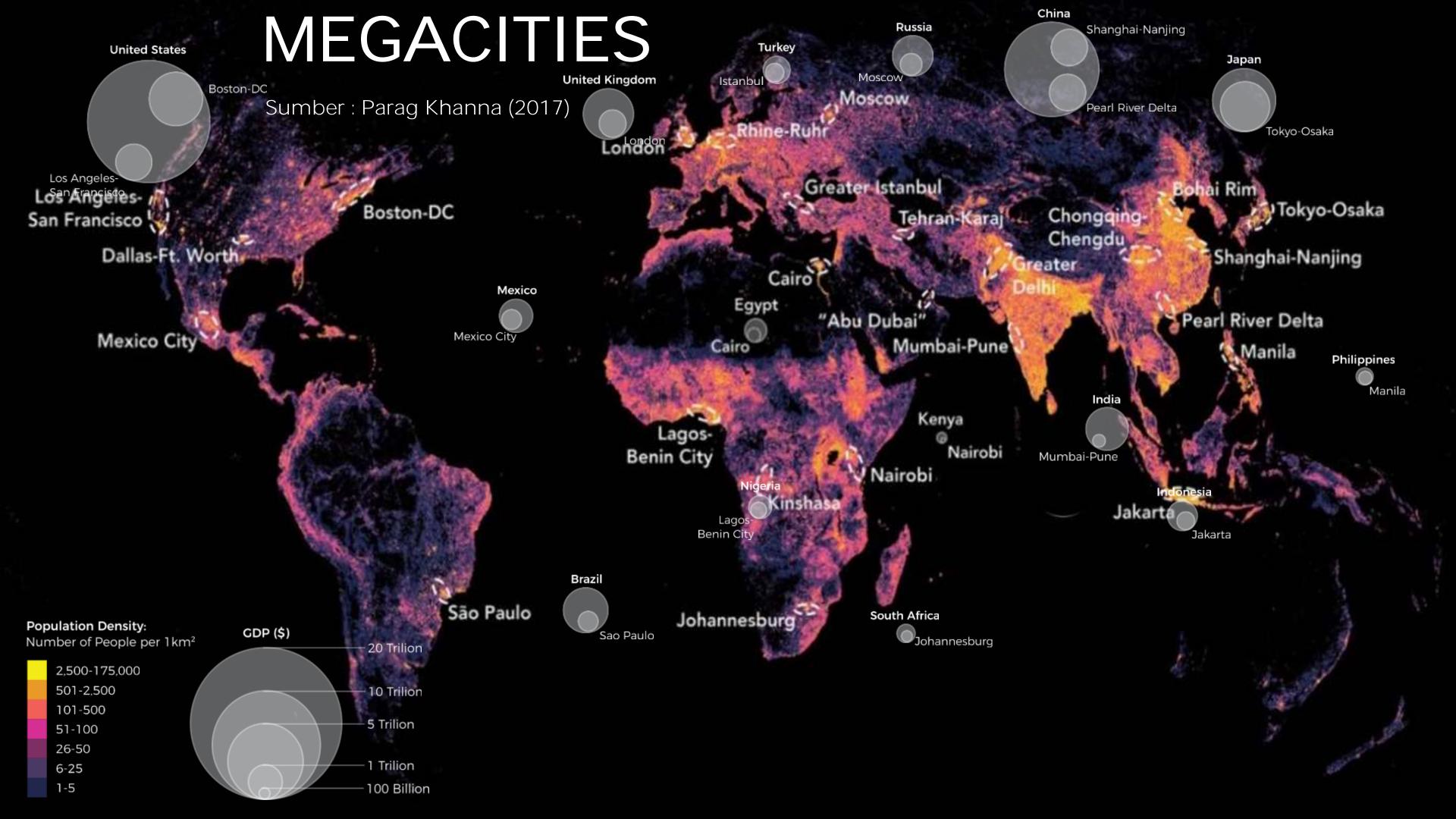
- Recognizing inflexion po and complementarities
- Selecting organizational boundaries









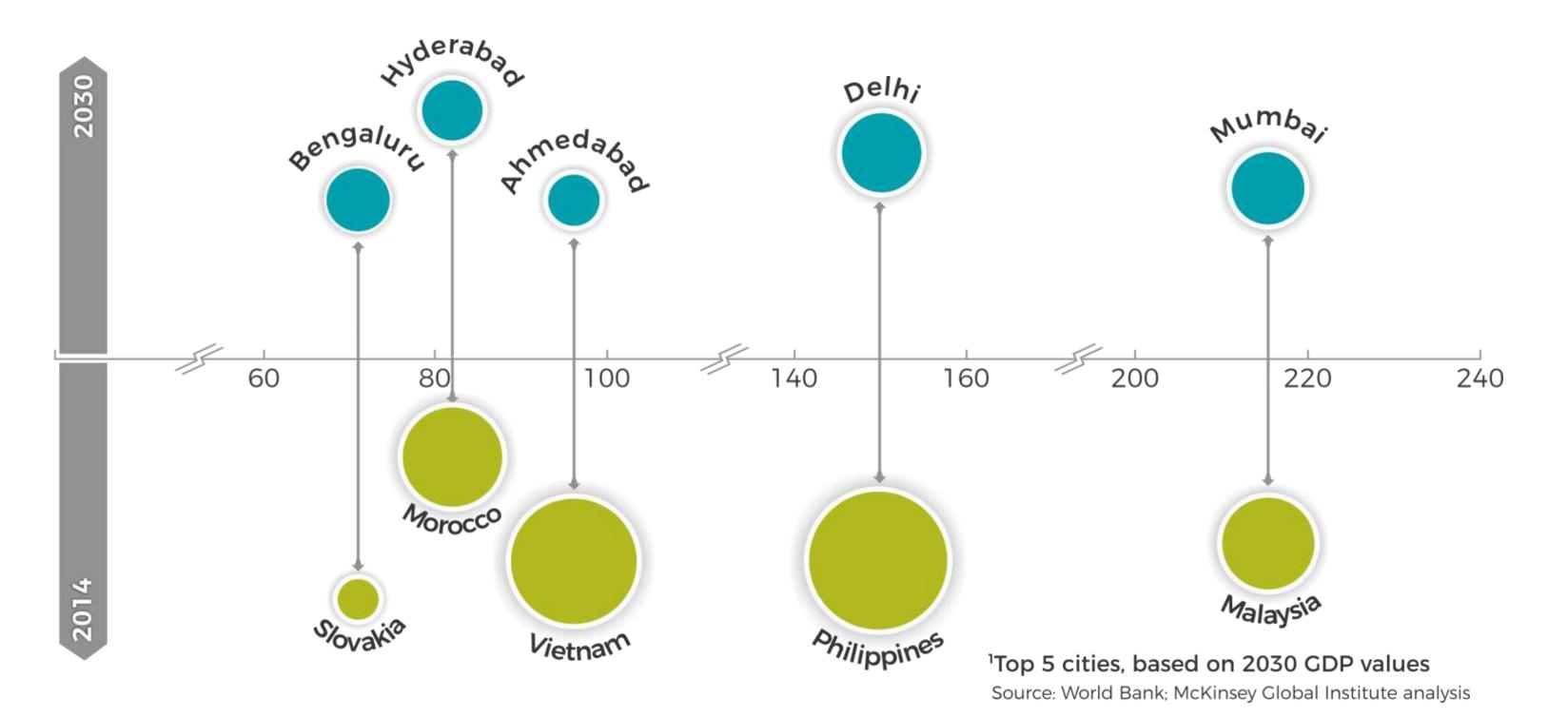


LIMA BESAR KOTA DI INDIA

By 2030, the economies of India's top five cities will be comparable to those of middle-income countries today.

Real GDP¹,
\$ Size of bubble proportionate to population,
\$ billion, 2005 prices

ranging from 5 million to 99 million



MEGACITIES DIDUKUNG OLEH UNIVERSITAS KELAS DUNIA













CALIFORNIA - NEGARA BAGIAN TERBESAR

(SKALA EKONOMI)







Stanford University	3	2	2
California Institute of Technology	2	4	8
UC Barkeley	10	27	3
UCLA	14	33	12
University of Southern California	60	_	49
UC San Diego	41	38	14
UC Santa Barbara	48	_	42
UC Davis	51	_	75
UC Irvine	98	_	58
UC San Francisco	_	_	2
UC Santa Cruz	_	_	83

KLASTER BOSTON-NEW YORK-PENNSYLVANIA

	SSAUL FEBRUARIES	RANKINGS	WORLD SINCE UNIVERSITIES 2003
Harvard University	1	3	1
Massachusetts Institute of Technology	2	1	5
Princeton University	7	13	6
Yale University	8	16	11
Columbia University	12	18	7
University of Pennsylvania	19	19	18
Carnegie Mellon University	37	47	68
New York University	25	52	29
Boston University	81-90	81	75
Pennsylvania State University	61-70	93	77

INGGRIS RAYA - MEGACITY TERBESAR (SKALA EKONOMI) DI EROPA

	WORLD: UNIVERSITY RANKINGS	WORLD UNIVERSITY RANKINGS	ACADEMIC RANKING OF WORLD SINGE UNIVERSITIES 2003
University of Oxford	1	6	7
University of Cambridge	4	5	4
Imperial College London	8	8	22
University College London	15	7	17
London School of Economics	25	35	3
King's College London	36	23	50

CREATIVE CLASS

3T (Florida, 2002)

- 01
- Best universities attract the best talents from around the world in any fields

- 02
- Best universities develop and apply the most advanced technology
- 03
- Best universities nourish tolerance

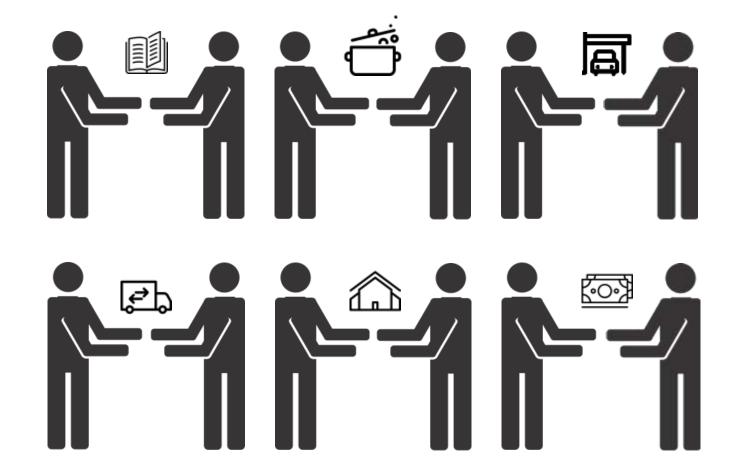
EKONOMI - BERBAGI

















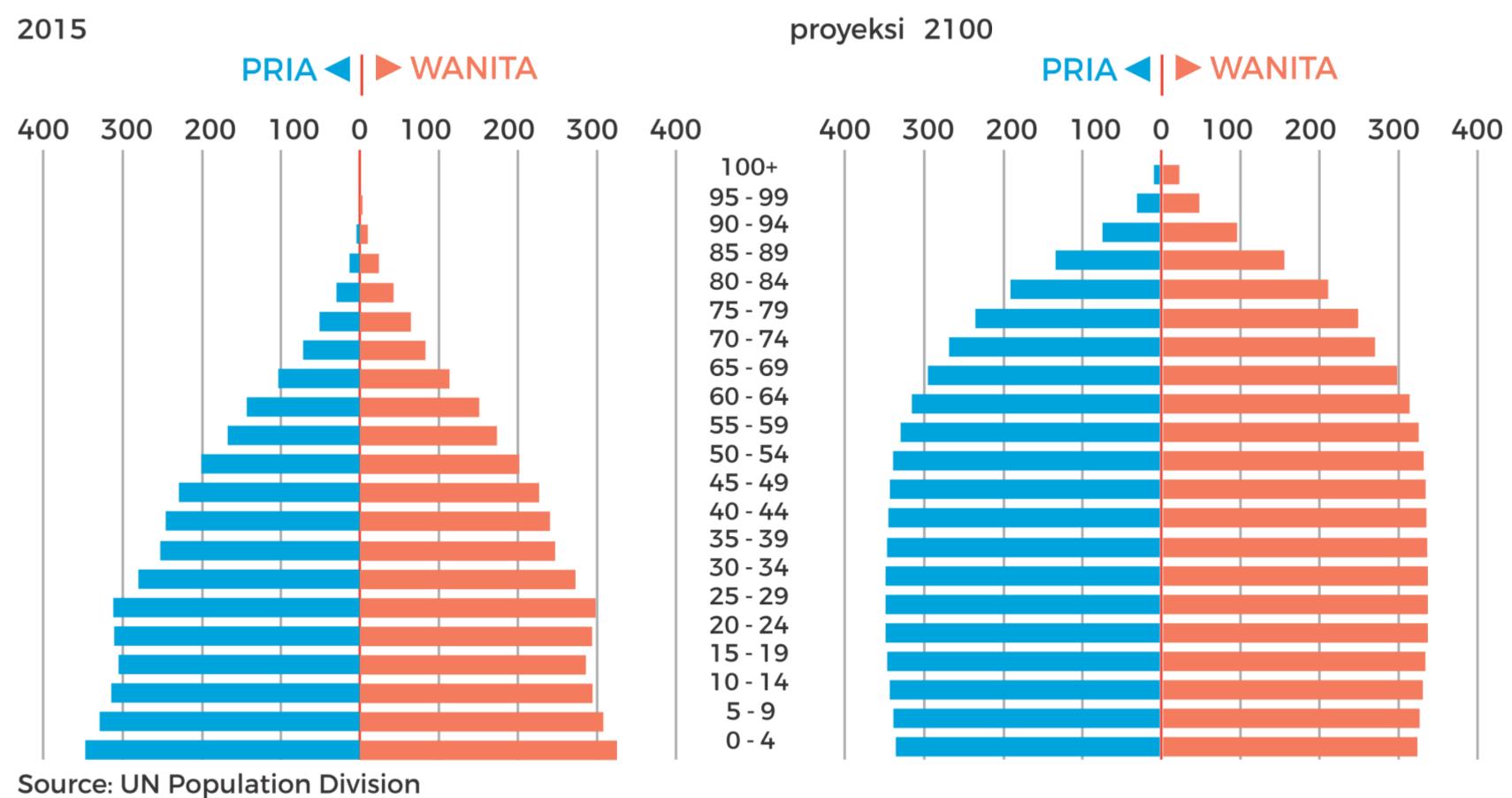






DEMOGRAFI - PIRAMID POPULASI

Pupolasi Global berdasarkan usia dan jenis kelamin



SHE-CONOMY

Women are increasingly participating in the labor force, making up 1/3 of the incoming CEO class by 2040

Women are primary breadwinners in over 40% of U.S. households, and make 85 percent of all consumer purchases If women play an identical role as men in the labor market it could add \$28 trillion to global GDP by 2025

Women in the global labor force



Source: WEF Global Gender Gap Report 2015

Personal Wealth Controlled by Women in the US



Women's Earnings in China



2000: \$0.35 trillion 2010: \$1.6 trillion

2020: \$5 trillion

Sources: BMO, Bloomberg, BCG

>9.4 million

firms owned by women

7.9 million employees and \$1.5 trillion in sales

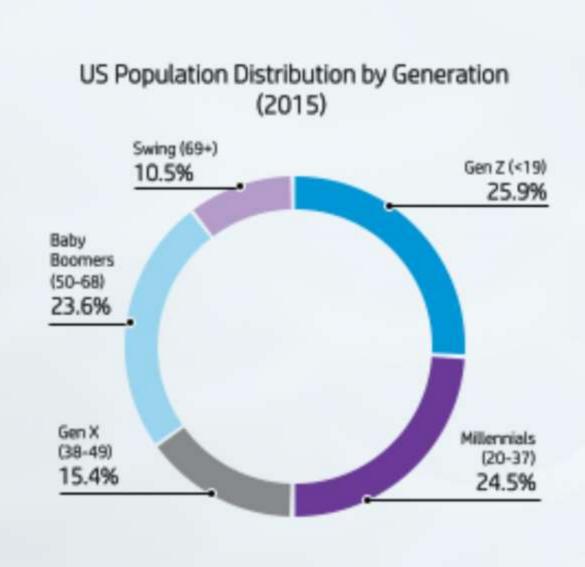
Sources: McKinsey, NAWBO

Improving economic conditions and changing attitudes are ushering women into the world economy in massive numbers

GEN-ZENERATION

Gen Z is a already a significant cohort, with a population of over 2.6 billion globally, and 26% of the US population

Technology is part of the Gen Z DNA Members of Gen Z have different views on work and business

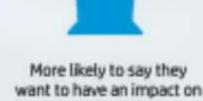


Source: US Census Bureau

91% have access to the internet
79% have a smartphone
83% play games on a phone or tablet
20% read textbooks on tablets
78% use internet banking or a banking app
78% purchase products online

Compared to Millennials, Gen Z is:





the world

77%

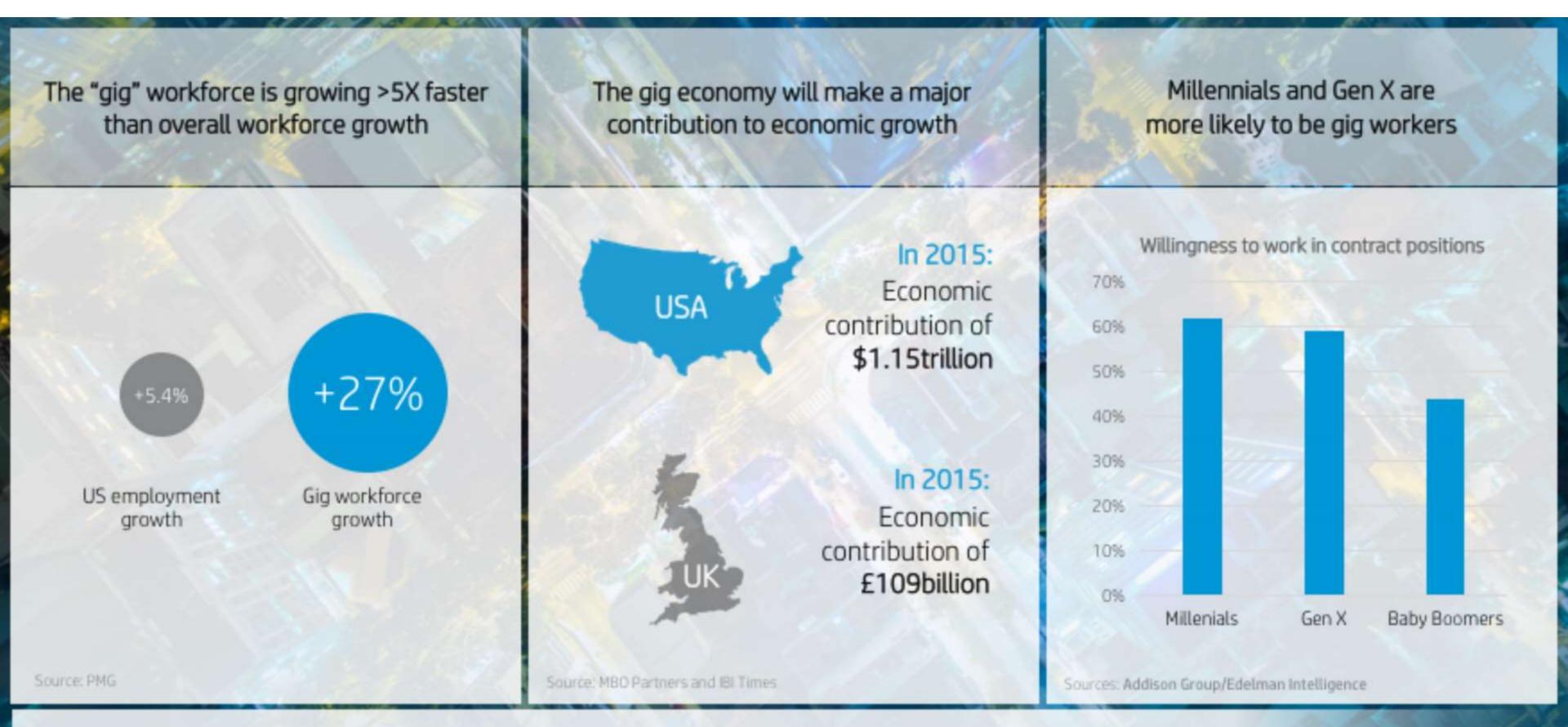
believe businesses should make 'doing good' a central part of their business, and not just by giving to charity

Sources: TNS New Zealand, JWT

Sources: Sparks & Honey, Millennial Branding, Salt

Generation Z is the first generation of digital natives with a new set of expectations and a different style of working

GIG ECONOMY



Changing Demographics and attitudes, enabled by new digital platforms, are changing the way we work

WATSON PRESIDENT





TECH & SCIENCE

COULD A ROBOT RUN FOR PRESIDENT IN 2020?

BY ANTHONY CUTHBERTSON ON 2/16/16 AT 6:29 AM

It's now possible to automate even high-level cognitive jobs





LABOR

Here's How Managers Can Be Replaced by Software

by Devin Fidler

APRIL 21, 2015













DIGITAL HEALTH

Growing healthcare challenges from rise in patients with chronic diseases, healthcare cost and doctor shortage

Digital healthcare a large and growing market

Prevention to elimination is plausible thanks to exponential technology growth

190M

Number of Americans affected by 1 or more chronic diseases

\$42T

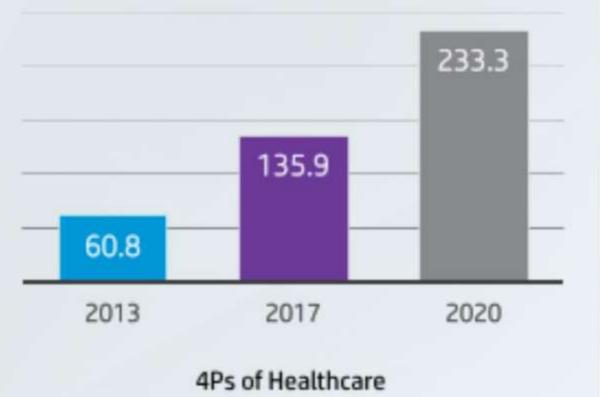
Total cost of chronic disease from 2016-2030 in U.S.

90,000

U.S. Doctor shortfall by 2025

Source: Partnership to Fight Chronic Disease and A.D. Little





Predictive Personalized Preventative Participatory

Source: A.D. Little, 2016

Healthcare 2.0:

Computing + AI + Machine Learning + Big Data+ Sensors

Faster, Cheaper Genomics

Sequence a genome in a day @ \$1000

Reduced Drug Development Time

Data analysis reduced from 2 days to 1 min

Increasing Connectivity

Sensors increase data accuracy & frequency for improved care

Managing Big Data

Healthcare data doubles every 24 months

Sources: 10000 Genomes Project, Genome.gov, Inventis

Digital health funding hit a new high in 2015, reaching nearly \$6B

Precision Medicine - Paradigm Shift



Application of rules, algorithms and reference databases enables ACTIONABLE clinical decision support & PRECISE/EFFICIENT care



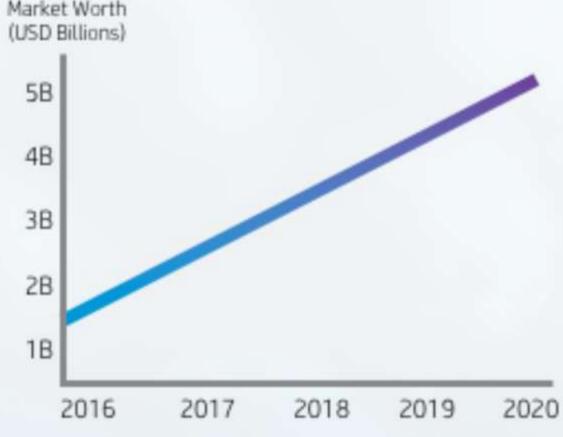
TEST TUBE FOOD

Plant-based substitutes of meat with the same nutritional value & taste will offset rising demand

New tech analyzes what we are eating in real-time Robotic chefs have the potential to change food preparation

Plant-Based Meat Market to Reach \$5.2 Billion by 2020 Market Worth (USD Billions)

Source: MarketsandMarkets



Source: TellSpec



Source: Moley



Innovation in technology is allowing the manufacture of next-gen food replacements, from lab-cultured meat to vegan milk and eggs

A startup is growing faux shrimp meat in the lab using algae

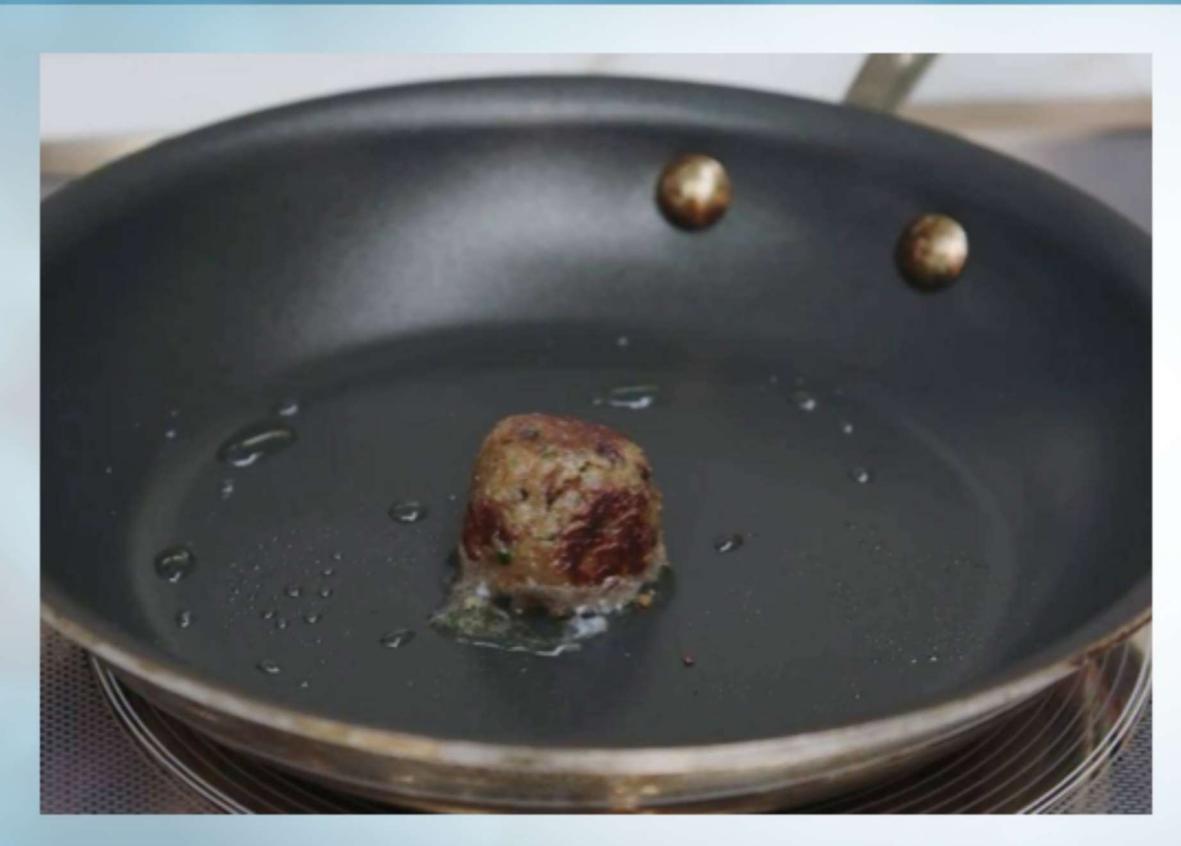


A startup called New Wave Foods is developing artificial shrimp meat in the laboratory, urged by environmental destruction and the other troubles brought about by commercial fishing.

The team is currently testing different ways of extracting proteins from algae that the crustaceans eat, mixing and mashing them together with protein gels to create the meat. So far, they've already nailed the taste, but mimicking the seafood's texture is proving to a bit more difficult.

Source: Engadget, Nov 2015

Startup making real meatballs in a lab without killing any animal



A Bay Area-based startup called Memphis Meats has figured out how to make a real meatball in the lab using beef cells, no livestock required.

The cost to make lab-grown meat has dropped dramatically recent years. When Mark Post, a researcher at Maastricht University in the Netherlands, created a burger made from lab-grown meat in 2013, it cost \$325,000. In 2015, Post said that he'd been able to bring the price down to just over \$11 for a burger.

STRATEGIC ORIENTATION



MARKET-DRIVING

ORGANIZATIONAL AND BUSINESS RESOURCE BASE

SENSING

Identification of target markets
Transactive memory system

SEIZING

- Recognizing inflexion points and complementarities
- Selecting organizational boundaries

- Business model decisions

RECONFIG

- Investment into a business fields
- Divestment of bu
- Alliancing

 Adjustments of v propositions

Customer and supplier contacts

SEIZING - KOMITMEN DAN INVESTASI

	Market-Driven	Market-Driving	
Pendidikan	Dosen perlu re-skilled (SAME, re-training)	Rekrut dosen baru yang relevan d engan Revolusi Industri 4.0 (koord inasi dengan LPDP, Kemenristekd ikti, dan BAPPENAS)	
	Staffs and students exchange ke universitas partner		
	Digitalisasi pendidikan - MOOC		
Penelitian	50% dana penelitian untuk topik yang relevan Revolusi Industri 4.0	10-20% dana penelitian untuk ek splorasi topik-topik penelitian baru	
Pengabdian Masyarakat	Menyiapkan masyarakat meng hadapi Revolusi Industri 4.0	Aktif berkolaborasi dengan skema ABG	





NAL AND BUSINESS RESOURCE BASE

SEIZING

- Recognizing inflexion points and complementarities
- Selecting organizational boundaries

RECONFIGURING

- Investment into new business fields
- Divestment of business units
- Alliancing



TRADISIONAL VS UNIVERSITAS ONLINE (Chistensen and Eyring, 2011)

Externally funded research

Online

Traditional



Harvard College 1636 - 1707

Charles W. Eliot 1869 - 1909

Lawrence Lowell 1909 - 1933

> James Conant 1933 - 1953

	University Trait	University Copied?
Face-to-face instruction		×
Long summer reces		
Shared faculty for undergraduate and graduate programs		
Comprehensive specialization, departmentalization, and faculty self-governance		×
Private fundraising		
Competitive athletics		×
Curricular distribution (GE) and concentration (majors)		Focused Offerings
Academic honors	\checkmark	×
Up-or-out tenure, with faculty rank and salary distinctions		×
Admissions selectivity		×

JawaPos.com



Nyelekit, Jokowi Sentil Mendikbud dan Menristekdikti

JUMAT, 04 AUG 2017 11:28 | EDITOR: KUSWANDI



Senin 11 September 2017, 12:39 WIB

Jokowi: Harusnya Unpad Punya Fakultas Medsos Jurusan Meme

Danu Damarjati - detikNews

RECONFIGURING

Mendirikan, me-refresh atau menutup fakultas/program studi yang kurang relevan

Meng-*hire* dosen-dosen baru yang sesuai dengan Revolusi Industri 4.0



















































