Chuo University Commemorative lecture

Current and future potential of Africa

→Impact of leapfrog innovation **→**

Asia Africa Investment & Consulting (AAIC) Representative partner

Tsubaki Progress

2021 Year 11 Month







Introduction

As a partner and managing director of Boston Consulting Group, Inc. (BCG), implemented business strategies. M&A strategies new business startups, globalization, and other projects in the high-tech, intormation and communications, Internet, and media and confent fields. Worked at San Francisco Office in 1995-96. He, spent 15 years consulting for major telecommunications companies, major mobile phone companies, major electronics manufacturers, major high-tech materials companies, major game companies, major television stations, II and Internet companies, and consumer goods companies. He became president and representative director of a listed company in 2006. He has served as an outside director at such companies as IOMY CO., LID., Ryunoko Production Co., Ltd., and Atlas Co., Ltd.

Currently Asia Africa Investment & Consulting (AAI) in 2008

C)Established a company. Appointed President/Representative Partner

Consulting services in emerging countries such as China, Southeast Asia, India, the Middle East, and Africa, including the development of new businesses, support for market entry, M&A and support for partner exploration, and support for business conversion implemented through Engaging and Investment. Japan's first African fund was established in 2014. Currently operating the Africa Healthcare Fund (AHF).

"Ultra-Accelerated Economic Africa: Toyo Keizai Co., Ltd." and many other writers and lectures on "Map of Future Businesses Changed in LEAPFROG" (Toyo Keizai Co., Ltd.)" and "Co-authorship of Global Strategic Introduction of Japanese Companies (President Co., Ltd.)"

Business Breakthrough University, Business Breakthrough University Graduate School

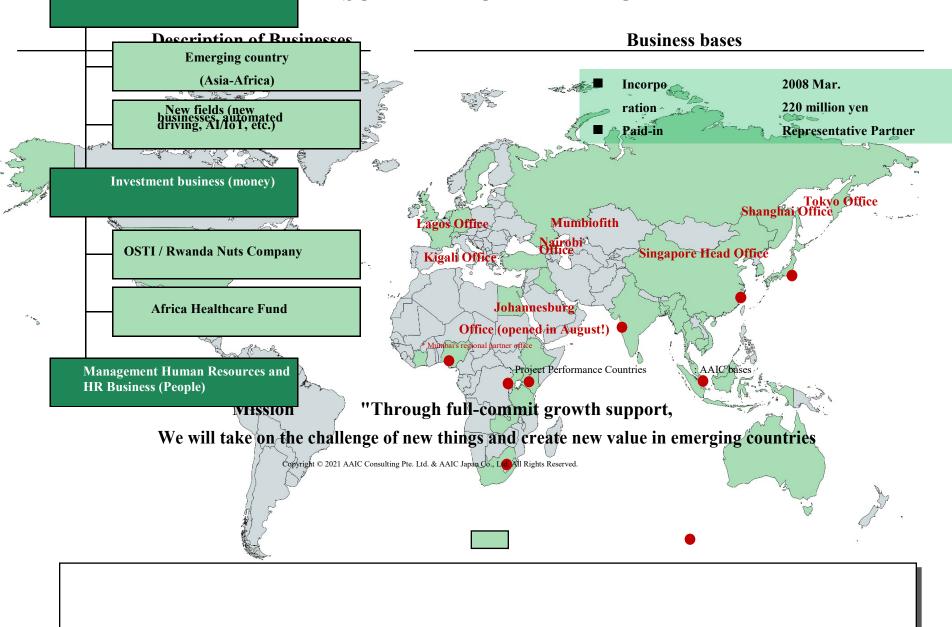
MBA, Graduate School of Business Administration Professor

Graduated from the First Department of Basic Science, Faculty of Liberal Arts, University of Tokyo



Consulting business (wisdom)

SUMMARY OF THE AAIC



2

LEAPFROG



"人類発祥の地 「アフリカ」が いよいよ来た!"

大前研



現地情報×ファクトフルネスで 知識をリカレントする 新感覚ビジネスパーソンの教養書!

【氏推薦!*####

で変わる未来の

Ultra-Accelerated Economic Africa: A Future Business Map Changing in LEAPFROG

Toyo Keizai Shimbun 2021/5/28 Launch

No. 1 in "World Economic Situation" on Amazon Five prints in two months of launch



AAIC's African Experiences and Disbursements

Established the first African office as a Japanese strategic consulting

company

Nairobi (2 Japanese + local), Kigari (3 Japanese + local), Lagos (2 Japanese +

Implemented its own African

<u>projects</u>

ment and management of agribusiness in Rwanda

Rwanda Nutz Company

Established Japan's first exclusive fund for Africa, and has an extensive track record

of investment in Africa

- ☐ TOYOTA TSUSHO CSV Africa
- ☐ Africa Healthcare Fund(AHF)

No. 1 Fund (under management)

End of Oct. 2021

Investment in 30 companies

Strong team of advisors on African business for more than 50 years

☐ Mr. Yoshiyuki Sato (founder of Kenya Nut in 50 years of present African business),

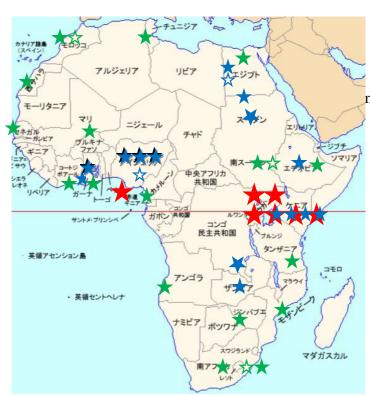
Chairman Dr Amit(Africa Healthcare Federation, Chairman of the Kenyan Medical Association, and others

Extensive consulting experience in Africa

Implementing a number of projects in North Africa, East Africa, West Africa, South Africa, etc. (market research, support for expansion, agency search, M&A support, investment support, etc.)

Extensive network in Africa

- ☐ Network with a wealth of local companies
- ☐ Deep network with local governmental and international organizations



☆Investment schedule

Network of	
former BCG	
partners	
Extensive local	
business	
experience	
Japanese-	
affiliated	
companies such	
as JETRO,	
JICA and the	
Ministry of	
Foreign Affairs	Other





製品とグループ



ビジョン



会社情報







Content

At the outset

"super-accelerated economic Africa"

- Disruptive innovation and time machines
- Examples of investees

Suggestions for the future



Last growing continent of capitalism Africa



Last growth region

- 54 countries
- Rapid population growth 1 billion (in 2011)
 - * 3.5 billion people (2100)
- GDP Rapid Expansion (Sub-Saharan) \$400 billion (2000)
 - \$1.8 trillion (2019)
 - Political stability
 - Overseas return group
 - Develoment of resources/energy
 - Investment in China
 - Investment from the world

Such as

China Rush **Since 2003**

NOTE: Calculated as exchange rate 1055 = 100 JPY

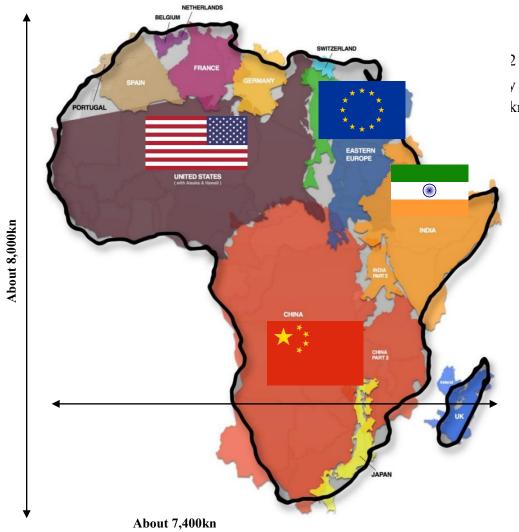
Source: Population-IMF, World Economic Outlook Database April 2013

Area-Ministry of Foreign Affairs, Countries and Regional Situations

GDP - IMF, World Economic Outlook Database April 2013 The World Bank



Broader than the sum of the United States, China, India and the EU's major powers



Scale of the African continent

2 in 54 countries y 80 times the area of Japan km in height and 7400 km in width

- Approximately 10,000km from Japan to Africa

8,000 km long

Tokyo - Seattle 7687km

Tokyo-Dubai 7935km

7400 km horizontally:

Tokyo-Moscow 7493km

モロッコ

ガーナ

-モザンビーク

-マダガスカル

コートジボワール

31,951

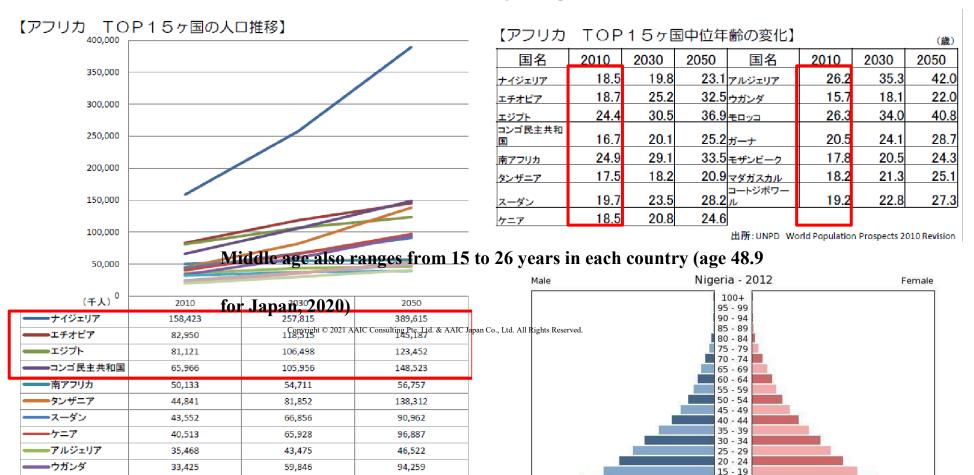
24,392

23,391

20,714

19,738

Africa is young!



- 9 -

12

Population (in millions)

15

出所: UNPD World Population Prospects 2010 Revision

39,200

49,107

50,192

53,561

40,674

37,502

36,537

35,907

35,333

29,823

12

Population (in millions)

15

10 - 14

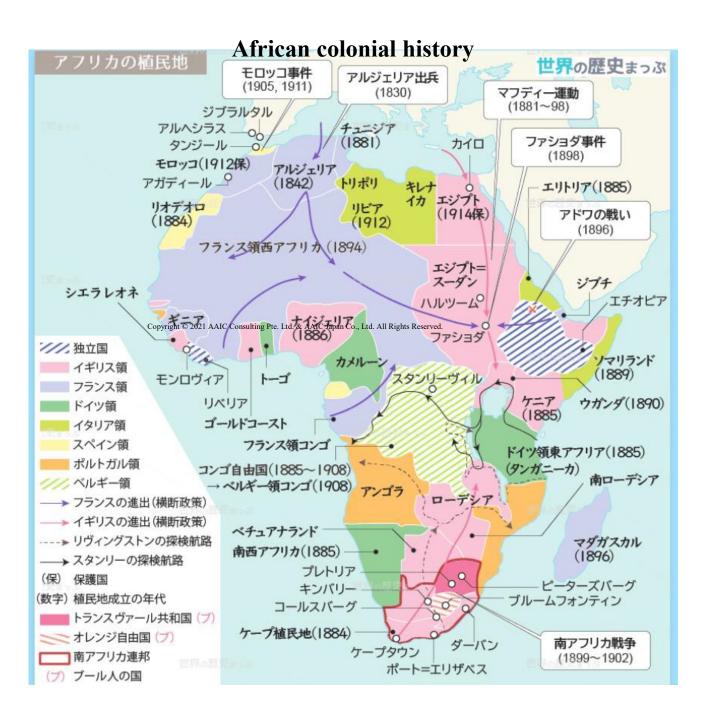
5 - 9

0 - 4

Age Group

Asia Africa				
	Basic Africa	Africa	China	India
CY2017	Hundr eds of	12.6	14.2	13.4
	millio			
Popula <mark>tio₂₀₅₀</mark>	Hundr eds of millio ns	25.3	13.7	16.6
Economy 2100	Hundr	44.7	10.3	15.2
IT L C	eds of millio			
Infrastructure	ns			
Population change rate 2050 years/2017	%	101	-3	24
Population change rate 2100 years/2017	%	256	-27	13
Inited Nations, Departmen GDPn Growth Rates (2014/76) Division (2017): World Population F	Prospects, TeleGeography, Ministry of F	3.7	6.9	6.7
Nominal GDP per capita (2017)	nghi © 2021 AAIC Consulting Pte. Lid. & AAIC Japan U.S. dollar	Co., Lid. All Rights Reserved.	8,643	1,983
Number of Internet Users (2016)	Hundr	1.9	7.6	3.9





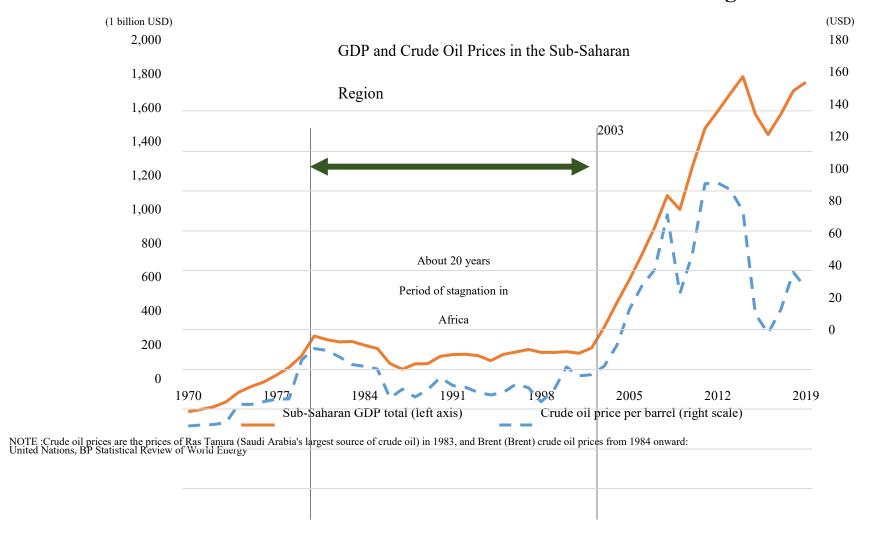
11

Source: History of the world



Have grown rapidly since 2003

GDP and Crude Oil Prices in the Sub-Saharan Region





Content

At the outset

- "super-accelerated economic Africa"
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 - Examples of investees

Suggestions for the future





M-PESA (Safaricom, Kenya):

Mobile Payment and



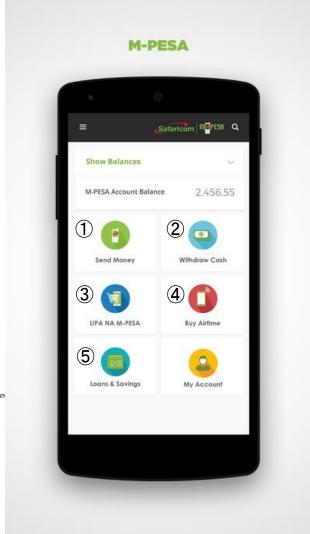


(Left) Gasoline station



In addition to remittance/withdrawal, settlement, and mobile phone charges, it also has a loan and deposit function in collaboration with banks





① Remittance

 Remittance can be made not only to M-PESA users but also to non M-PESA users (enter the mobile number of the destination of remittance)

3 Settlement

- Payment can be easily made by entering the code of the payee and specifying the amount.
- Public, such as electricity and water
 In addition to utility fees, purchases on e-commerce websites, payments at affiliated offline stores, etc. are also possible.

(5) Loans and deposits

• As a function provided by KCB Bank, it is possible to make a loan from a M-PESA or make a fixed-term deposit or a deposit with a target amount.

2 Cash withdrawal

 Depot at M-PESA distributor Cash can be withdrawn from the credit balance

4 Portable charge

- Carriers other than Safaricom
 Can be top-up
- You can not only charge yourself, but also top-up for people you know about.

Source: iTunes

16



M-K PA SOLAR

Case: M-Kopa Solar (Kenya)

Sales in Africa of lighting fixtures that are connected to solar panels and can be used in areas where electricity is not used.

Referenc





Products



Reference

M-K PA SOLAR ABOUT **PRODUCTS** WHERE TO BUY M-KOPA 5 Solar Home System Kenya Uganda

50 /=

MEDIA

CONTACT

WE'RE HIRING!

Per day + 2,999 /= deposit

- M-KOPA 5 Control Unit with Rechargeable FM/USB Lithium Battery
- 8W Solar Panel
- 4 Bright, 1.2W LED Bulbs
- · Rechargeable Torch

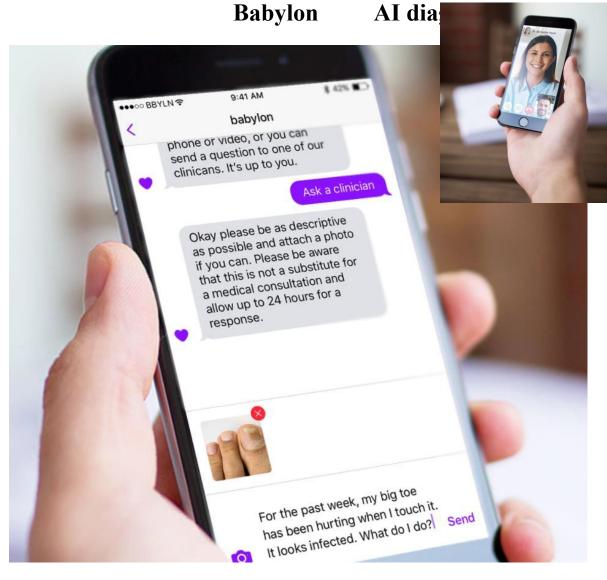
- Radio
- 5-in-1 Phone Charge Cable
- Custom Charge Cable

M-KOPA 5 Solar Home System

Affordable

Customers buy the solar home system on an affordable M-KOPA payment plan, with an initial deposit followed by daily payments for up to one year. After completing payments, customers own the





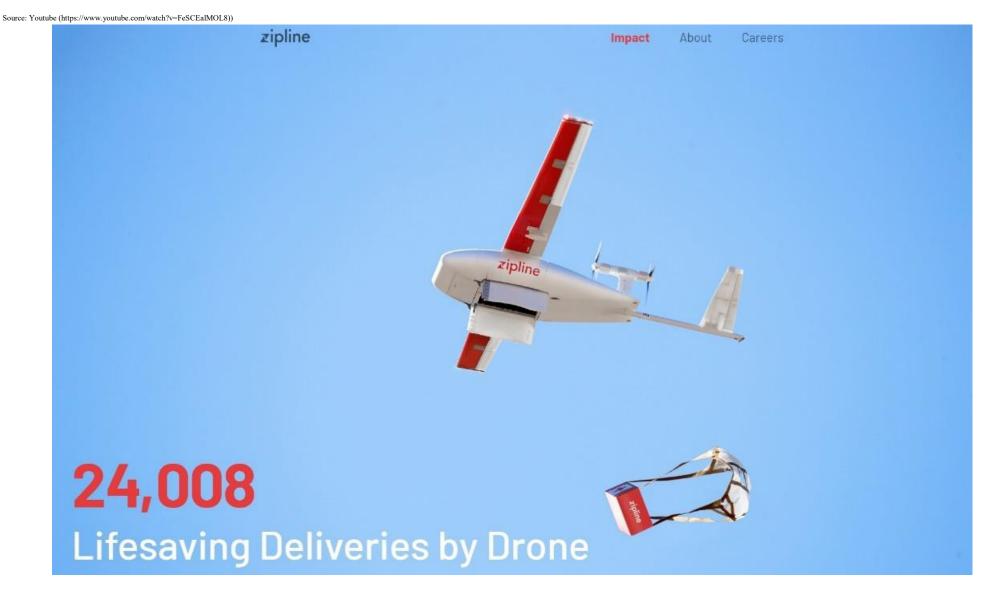
(Britain, Rwanda)

- Babylon applications are available in the United Kingdom, Ireland, and Rwanda and downloaded more than a million times.
- When a user reports symptoms to an AI charbot, they analyze the symptoms and recommend a video interview with a physician as needed. In the United Kingdom, the price of an interview with a general practitioner is 25 pounds a time (about 3600 yen), which is higher than the price of an interview with a specialist. The user can also pay five pounds per month to use the service at a fixed rate.
- For Rwanda, which has 2 million users (less than 20% of the population in January 2019), the cost of consulting a physician is 200RF (approximately 20 yen per visit).
- ☐ Babylon currently has about 170 employees
- Babylon's goal is to build the world's most advanced Al-platform, make it easier to diagnose, and provide health, checkups, and treatments tailored to individuals worldwide.
- Babylon raised \$25 million in January 2018. The stock was valued at more than \$100 million, according to the Financial Times.
- \Box To 750M→ Unicorn as of 2019



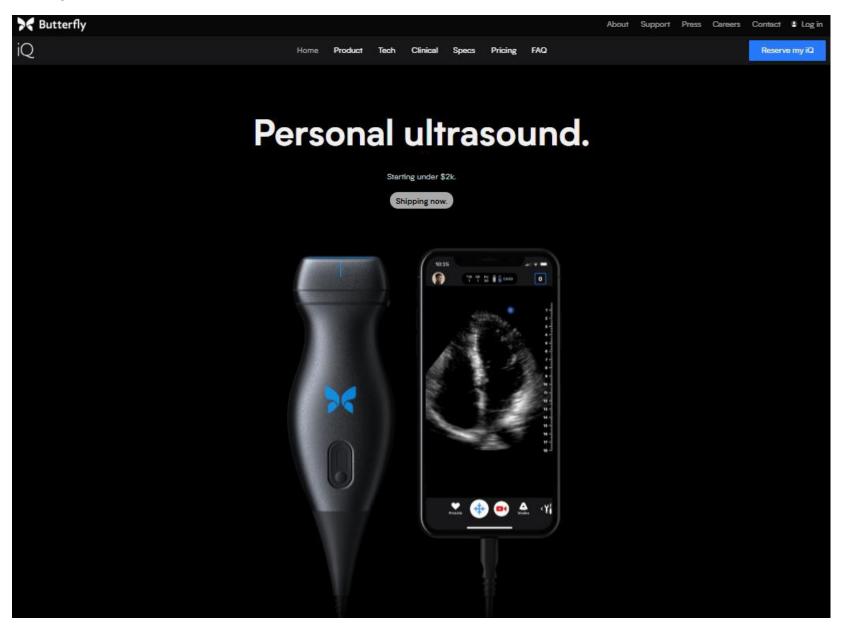
Zipline Drone logistics (U.S. and Rwanda)

,





Mobile ultrasonic diagnostic equipment





Butterfly (U.S.) : Mobile ultrasonic diagnostic equipment

iQ v Pricing Enterprise Get a demo

Contact us

A new era of healthcare for everyone.

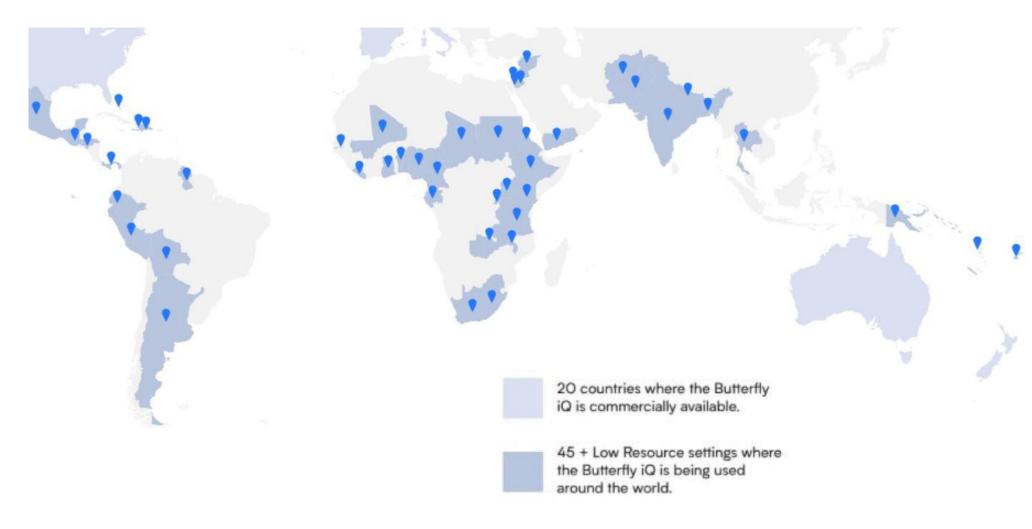
We support organizations across the world who are using Butterfly iQ in low-resource settings to create sustainable healthcare, one iQ at a time.

Learn more about our mission









Source: Butterfly HP

V	Target Countries and Regions		2014 Nominal GDP per capita (\$)	As in past Japan		Major Events in Japan	
	State	City					
	The Democratic Republic of Congo		412	In 1959		Fujikyu Highlands (1963) Tokyo Olympics (1964)	
2 E	Ethiopia		548	1961	_		
3	U		599	1961 1962	_		
	Uganda Fanzania		768		_		
	Senegal		1,091	1966			
3	Cambodia		1,10	1966		Launch of Tama New Town in 1965	
C		Dar Salaam (Tanzani)	1,170	1966			
	Myanmar		1,270	1967			
-	The Democratic Republic of Congo	Kinshasa	1,309	1967	-		
	Ghana Cote d'Ivoire		1,35	1967 1967			
	Cameroon		1,42	In 1968	-		
	Kenya		1,46	In 1968	1		
		Kampala (Uganda)	1,48	In 1968]		
		Accra (Ghana)	1,499	In 1968		Development of Daiei Metropolitan Area (Rainbow Strategy)	
_	India		1,620	In 1969			
_	Laos		1,69	In 1969			
	Zambia Sudan		1,70: 1,985	In 1969 1970			
	sudan		1,983	1970			
		Kigali (Rwanda) estimation	1,912	1970			
(Cambodia	Phnom Penh	1,929	1970			
۰	Vietnam		2,073	1970		Holding of Japan World Exposition, McDonald's 1st Store	
(Cote d'Ivoire	Avidians	2,16	1971		First shop	
		Addis Ababa (Ethiopia)	2,240	1971			
		Kolkata	2,25	1971			
	Sudan	Hartoum Delhi	2,531	1971 1972	Tital month		
		Hanoi	2,893	1972	High growth		
I	Philippines		2,91	1972		Daici Totsuka store opened (then the largest shopping center in the Tokyo metropolitan area)	
		Yangon (Myanmar)	3,16	1972			
1	Nigeria	Lagos (Nigeria)	3,330	1973]		
	Egypt		3,33	1973]		
?	Morocco		3,39	1973	4		
,	Indonesia	Nairobi (Kenya)	3,350	1973 1973	4		
	Nigeria		3,410	1973	1		
	Laos	Vientiane	3,540	1974	1	(Approximately 100% penetration of new aluminum sashes)	
		Mumbai	3,641	1974	1		
		Calcutta	3,64	1974]	7-11 First store (Toyosu) (1974)	
	Tunisia		4,46	1975			
-	Algeria	Algeria	4,49	1976	1		
١	Vietnam	Ho Chi Minh	4,424	1975	4		
-		Chennai Bangalore	4,560	1975 1975	1		
I	Iran		5,16:	1976	1	Automobile penetration rate 50% (1976)	
_		Baghdad	5,250	1976	1	,	
7	Thailand		5,550	1977]		
		Casablanca (Morocco)	5,780	1977			
	Algeria		5,880	1977]		
п	Angola		6,123	1977	1	1	

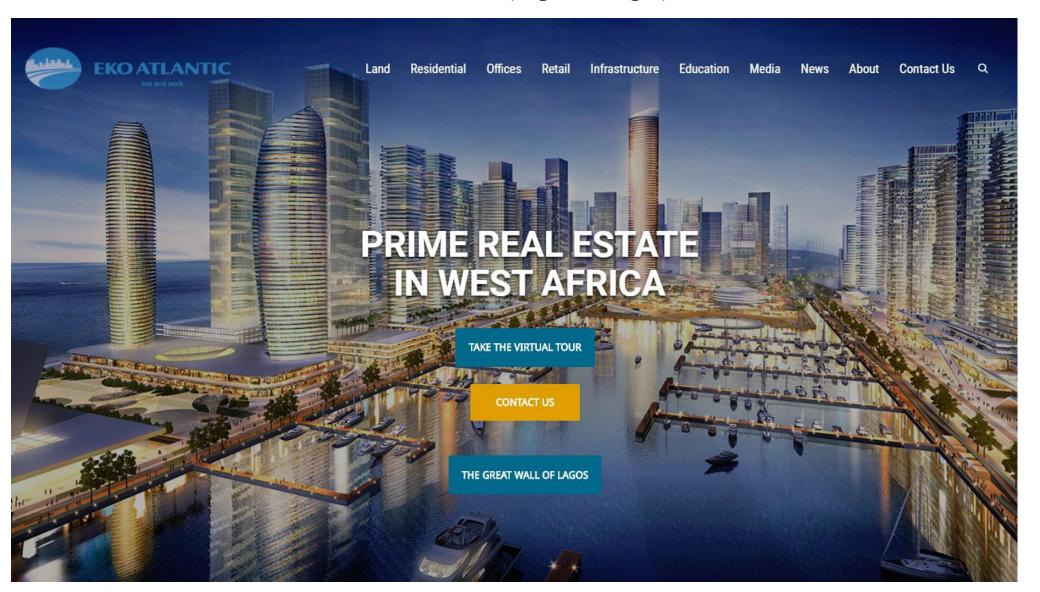
ap/time machine map"

	I			1				
		38		Manila	6,719	1978		Tokyu Hands Shibuya Store Opened in 1978 and
		39	Venezuela		6,870	1978		
•		40	China		7,572	1978		Shibuya 109 Opened in 1979
		41	Bulgaria		7,648	1978		
		••	Botswanaribia	Habologetchran	7,750	1978		
			Botswana	Johannesburg	7,730	1978		Opening of all Chuo Routes (1982)
	\$10000 43	42			10,090	1983		Disneyland Open (1983)
		44	Romania	Lima (Peru)				Disneyland Open (1983)
		45	Turkey	Sofia (Bulgaria)	8,342 9,096	1978 In 1979		
		46	Tuncy	Caracas (Venezuela) Bucharest	10,161	1n 19/9 1983		
		47			10,518	1984		
	4	48 N	fexico	(Romania) Jakarta	10,676	1984		Opened the entire Kanetsu Route (1985)
		49			10,795	1984		
		50	Malaysia	Mexico City	10,837	1984		December Assettition of the 1000 consisting 5
		51	Brazil	Bangkok (2014) Beijing	10,951	1984		Roppongi Arc Hills opened in 1986, exceeding 5 million overseas travelers in 1986.
		52		Tripoli (Libya) Shanghai	11,062	1985		
		53	Argentina		11,067	1985		
		54	Hungary	Rio de Janeiro Warsaw	11,271	1985	D 111	
		55 56	r ·	Shenzhen	12,778	1985	Bubble	Purchase of Yasuda Fire "Himawari" (1987)
- [57	Russia Poland	Istanbul Bangkok (Estimated for 2018)	13,154	1985		I dichase of Lasadd File Hilliawdii (1707)
		58	Chile	Santiago (Chile)	13,393	1985		
		59	Mexico	Kuala Lumpur	14,317 14,330	1986 1986		
		60	mexico	read Lampa	14,330	1986		
		61			15,723	1986		
		62 L	ibva		15,756	1986		Don Quijote's first store (1989)
		63	10,73		16,121	1986		
		64	Slovakia		16,146	1986		
		65	Czech Republic		16,585	1986		
		66	•		18,480	1987		
	\$20000 67				18,985	1987		
		68			19,045	1987		
		69			19,233	1987		
					20,000	1987		
		70			20,167	1987		
		71 T	aiwan		20,653	1987		
		72			21,322	1987		
					21,572	1987		
					23,494	1988		
			73	Buenos Aires	24,812	1988		Acquisition of Rockefeller by Mitsubishi Estate (approx. 220 billion yen)
		74 S	audi Arabia		25,401	1990		Acquisition of Pebble Beach (1990)
		75	addi Atabia	Budapest (Hungary) Sao Paulo	26,266	1990		Overseas travelers exceeded 10 million (1990)
- [epublic of Korea	Read Read	28,739	1991	Low	o reasons da resels exceeded to million (1770)
	\$30000 77	78	Saudi Arabia		29,203	1991	growth	
		79	Japan	Hong Kong Moscow	36,412	1993		1
		80	- upun	Biberlin	37,540	2014		
- [ussia		37,859			Roppongi Hills (2003)
		82			42,092			Roppongr Tims (2003)
	8	83		Taipei	42,753			
		84	United Kingdom	Singapore London	43,832 44,141			
		85	United Arab Emirates	Tokyo	44,771			
		86	France	New York Paris	45,384			1
		87 J	ipan (2012)	Abu Dhabi	46,896			
		88 C	ermany		47,201	2014]
		89 90	Tlaired Stores		52,374			Africa Asia
		90	United States		54,678			
		92 92	Singapore		56,113			24
		93			56,065			
		94			56,466			
		95			64,524			1
		96		1	70,972		L	

IMF-World Economic Outlook Databases (October 2012 edition), AAIC analyses



Eko Atlantic (Nigeria, Lagos)





Eko Atlantic (Nigeria, Lagos)



Current status of Eko Atlantic, completed forecasts, etc.



Project Overview

- Multi-family property project being developed by a South Energyx Nigeria Limited affiliated with Chagoury Group, one of Nigeria's largest corporate groups
- Huge deals that combine housing, hotels, retail facilities, and offices
- As for houses, 250000 people are scheduled to build as many houses as possible
- 1,000 ha (10 million m2) = Create land in Chiyoda Ward. Landfill cost: Approx. 200 billron yen
- The largest country in Africa (population: 190 million),
 More than 300 million in 2040). Largest city
 Created in the highest-quality area of 20 million people
- Free Zone Designated Area. No duty, no tariff. Guarantee of security at Gate City. Dedicated power plant complete.

20

AAIC
Asia Africa
Investment & Consultation | Shinkansen SGR(Standard Gauge Railway) Open in May 2018





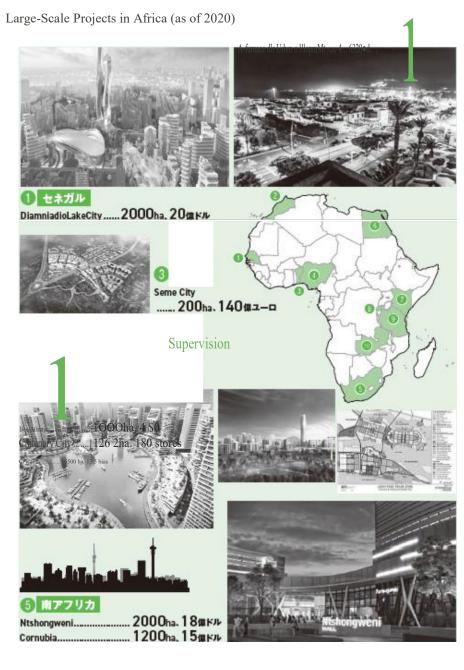


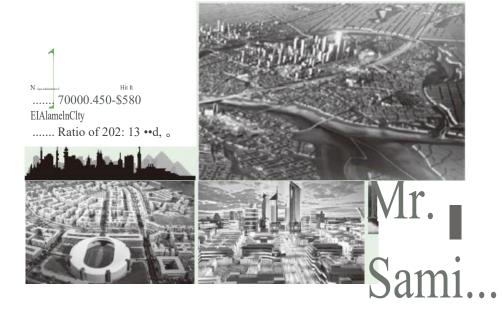
Future route planning

New East African railway



Go-





11£1

Tatu Clty......200 Knowledge. 18.0 JI, Ko nzal core vioClty.......200(Lha. 3. 68 •d

Little............1..6..0. Ratio: 4 million d....

Klgall lmovat and City 70 ha, \$20.





USA Rivilf......160 tia, 10 great dollars

Salama Creek 8 011a. \$1 billion

Mollusc I City...... 237ha, 10 • -"



1

\$1511 Nkwa stimulus....1.2.5.4.h.a.



Content

At the outset

"super-accelerated economic Africa"

- Disruptive innovation and time machines
- ☐ Examples of investees

Suggestions for the future



Outline of the African Healthcare Fund (AHF1)

①Leapfrog

"In Africa, we will specialize in and invest in healthcare-related areas, the largest challenge and growth field, and utilize Japanese technologies and know-how to resolve social issues and realize sustainable businesses."

[Main investment targets

①Single/Advanced Medical Areas

Four companies



Rwanda Tanzania: Dialysis Center





4. Kenya: Specialization in Obstetrics and Gynecology

<u>4</u>Health maintenance/public health/food/agriculture

Two

<u>companies</u>

30.



29. Rwanda, Kenya, Uganda, DR Congo Tanzania, Burundi,

: Community water service

54 CAPITA Ethiopia: FMCG's NO1 brands

(Soap, detergents, oils, etc.)

As of October 2021 30 companies

②Healthcare Tech/Innovation 18 companies



5. Kenya: HC-specialized EC

DentaCarts.com

7. Egypt: Dental specialized EC



9. Kenya and U.S.: IT services for hospitals CHIPPER...

11. Nigeria et al.:

African international remittance PF







Analysis of wearable data

3M edical services area

Seven



Kenya: Private Version 911 Services



6. South Africa: Hospital Reservation PF/Medical 23.

Big Data

8. Nigeria; Nigerian NO1 Woover Logistics PFs

24. Nigeria: Transfusion-specific logistics service



12. Kenya. Kenyan NO1 woofer-type distribution PFs
14. Nigerian et al.: EMRs of local NO1



Remote interpretation services for local No.

Digital pain relief device



Developing and Providing Insurance-Management

PF/API



22. Nigeria: FinTech for retailers including crowdForce pharmacies



25. Kenya: Laboratory Centers (CT, MRI, etc.)



AI 27. Nigeria: Pharmaceuticals Wholesale EC

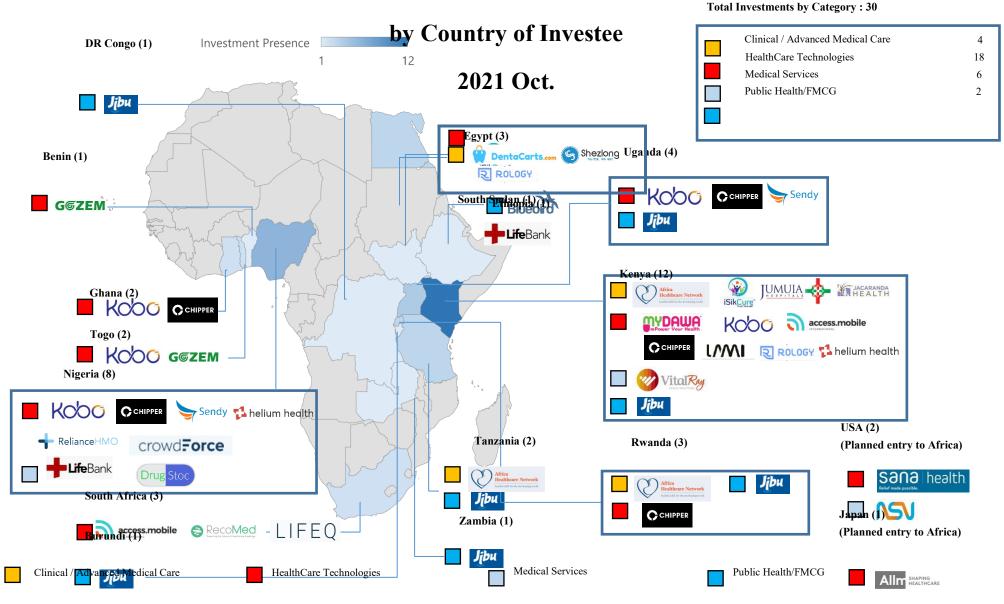
Models



28. Kenya: Manufacture and sale of medical consumables such as syringes



Status of Business Operations





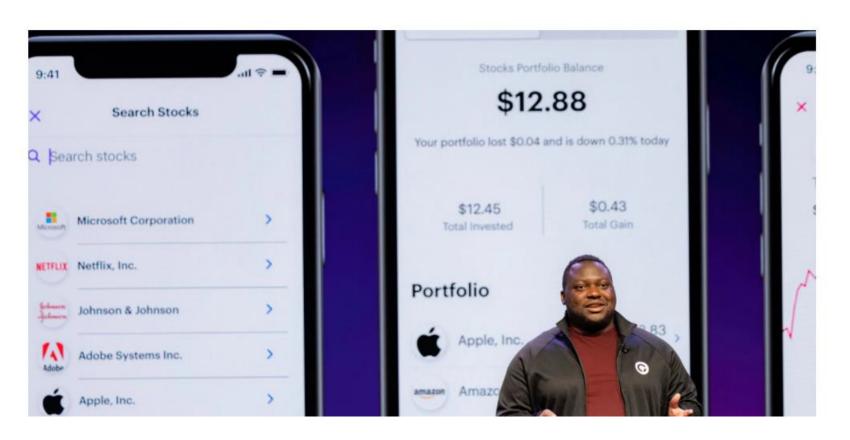
To 2B of Chipper Cash

Chipper Cash gets \$2B valuation with \$150M extension round led by FTX

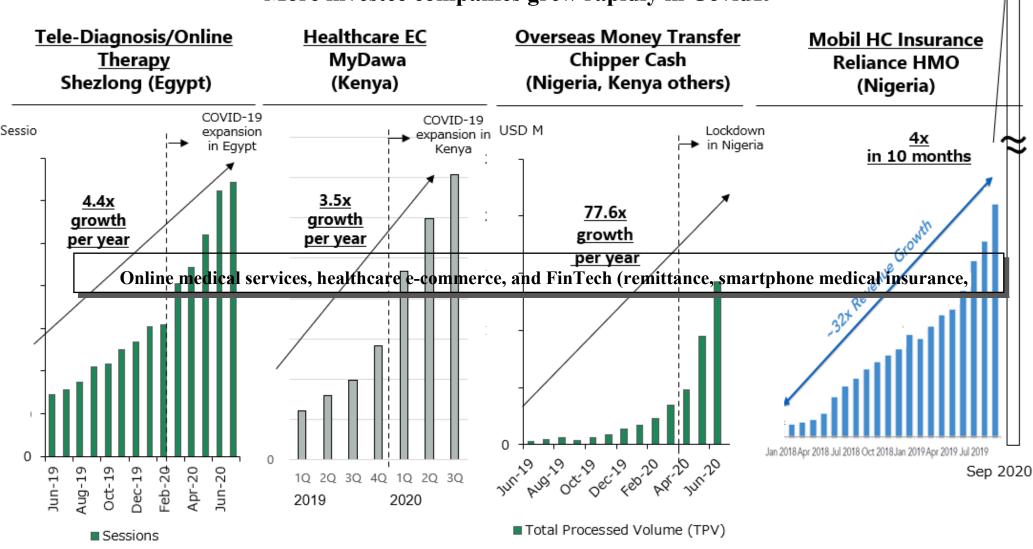


Tage Kene-Okafor @ulonnaya / 1:00 PM GMT+8 • November 2, 2021





More investee companies grew rapidly in Covid19





Not only OTC products but also prescription drugs for medical use Normal Age Are Beginning



About MYDAWA (Kenya)

Digital transformation in healthcare are starting to take off



Company Profile

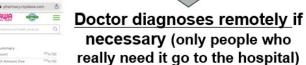
East Africa's No. 1 Online EC Platform (Amazon-like platform specializing in medical products) Not only general drugs but also prescription drugs are sold on EC. Deliver Greater Nairobi in 4 hours.



New Normal

Not feeling well

Self-diagnosis/Al diagnosis via smartphone



Get digital prescription

Buy at online pharmacy /delivery to home

Take them

Website: https://mydawa.com/



Helium Health (Nigeria)





Subscriber model, data sharing







Gozem (Togo, Benin) **Super APP in Francophone Africa**





Business Overview

Gozem is a Super App similar to Southeast Asian Grab/Go-Jek in West and Central Africa. Currently moving (Bictaxy, etc.) is the main service and gradually

Aim to expand the service menu

- By expanding the number of users through transportation services (motorcycles, automobiles, and tricycles), we aim for a user base. Finance, insurance, and pharmacy delivery to leverage Expansion of services for feedthroughs
- Provides Gozem Wallet, currently 25% Gozem Settlement by Wallet

Developed in Togo and Benin and planned to develop in the future

2021: Gabon, Cameroon, DRC, Burkina Faso, Senegal, Cote d'Il, Ghana

Future development

- Gabon was established in 2021. In Logo and other areas, the company has also expanded into three new cities. Gozem are home delivery, financial services

Comprehensive super apps, including way and pharmacy delivery



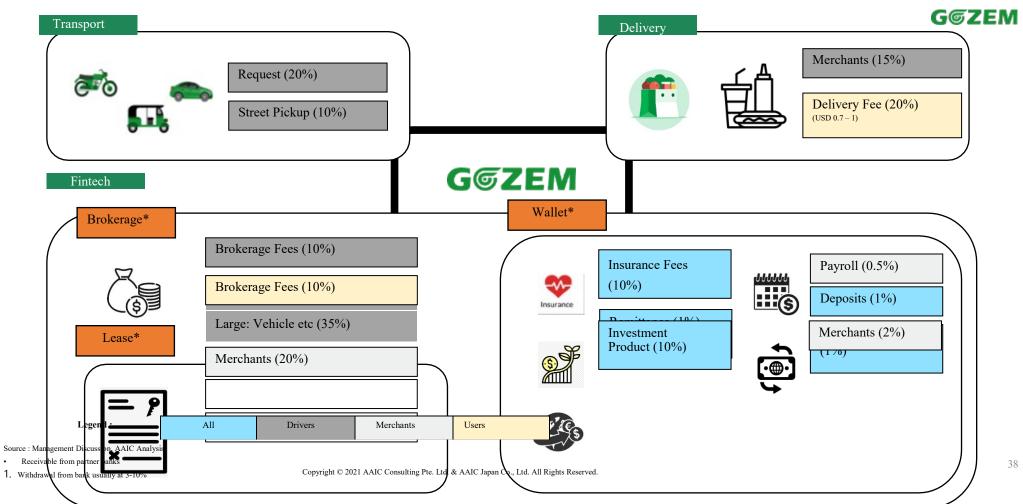
Founder: Raphael Dana

37



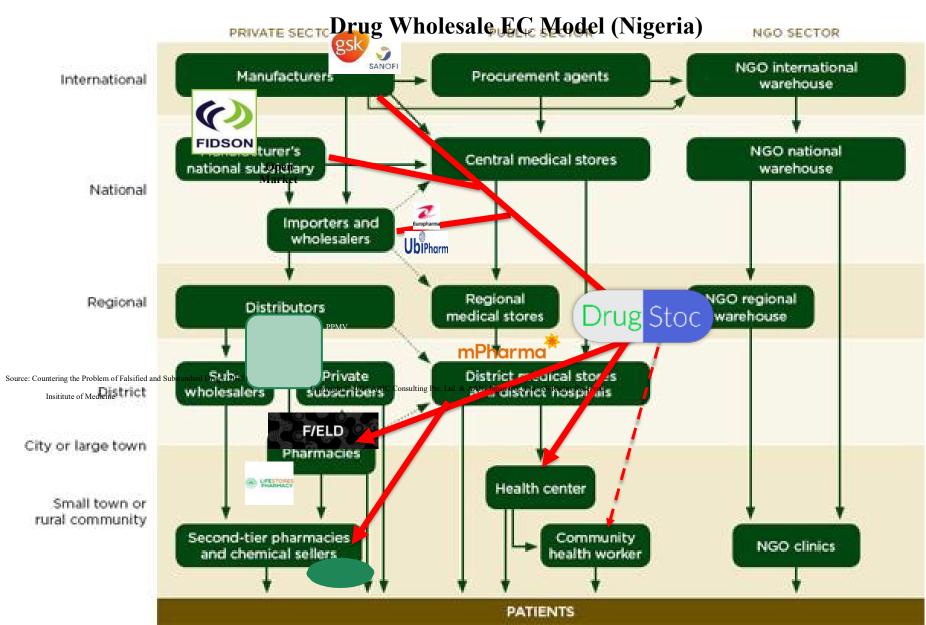
Gozem builds customers' platforms centered on transportation services (taxts, etc.) and provides additional services.













Content

At the outset

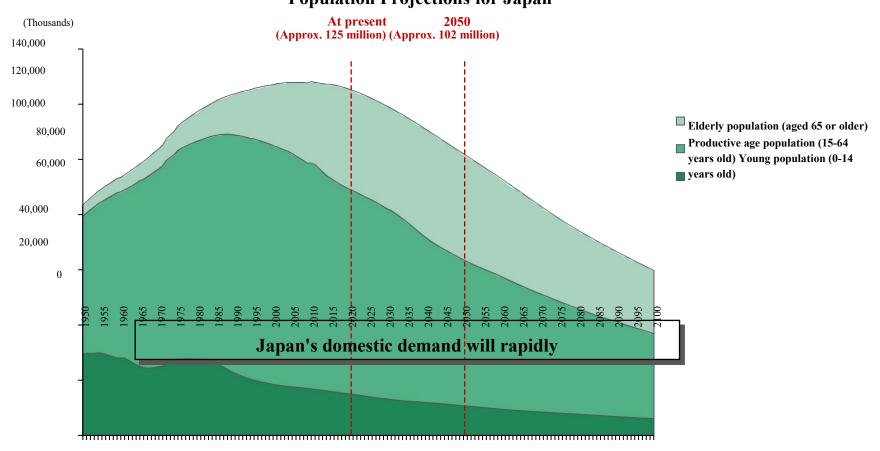
"super-accelerated economic Africa"

- Disruptive innovation and time machines
- Examples of investees

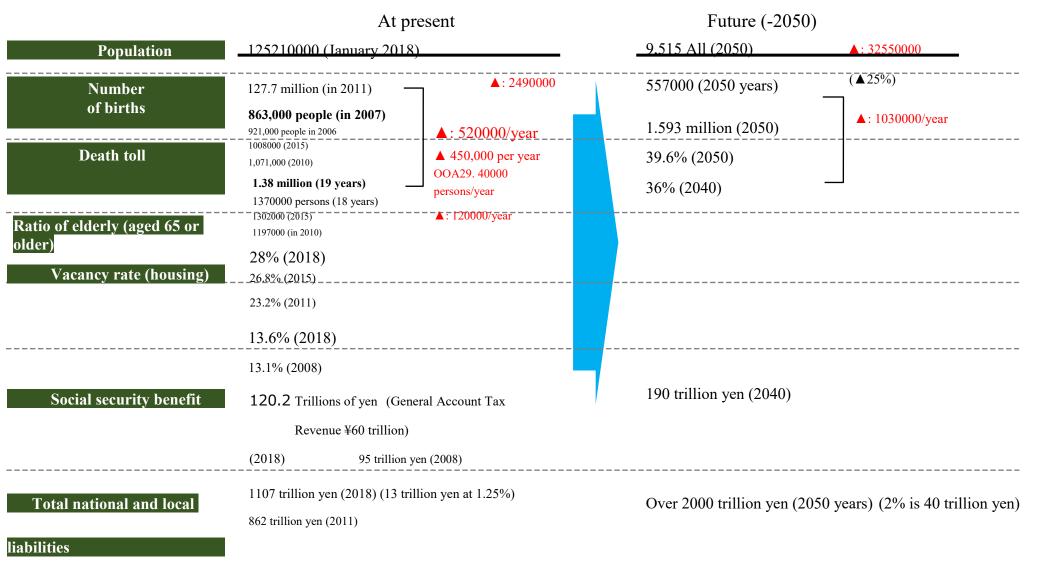
Suggestions for the future



Japan's domestic demand will mature and enter an era of major contraction Population Projections for Japan



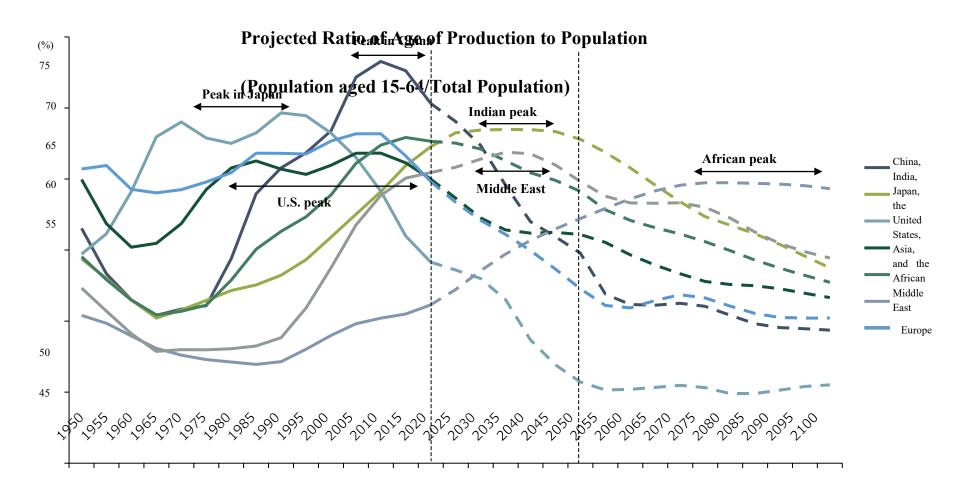




Decline of 800,000 to 1 million per year for more than 50



Africa will reach its peak from now on





What should Japan do?

Individuals: "Have ambition!" "Have the power to fight in a growing world."

• Daishi and spirit, the courage to dive in, the effort not to be beaten by others...

Corporate: "Winning the World"

- Domestic reorganization + Overseas expansion
- Overall review of business portfolio
- Preparing for the Fourth Industrial Revolution (DX Revolution) and the Thirty-Year War between the United States and China
- Acquire overseas M&A skills (First Opportunity in 12 Years)
- Develop management skills, human resources, and know-how to win the world.

National/local governments/local governments: "Open! = Invite human resources, funds, companies, and

information from the world"

- Recruiting funds, people, companies, and information from the world.
- Artificial equilibrium method: Accept a reduced population
 - Inbound + Long-term Resident + Legal Migrants
- Education to develop human resources who can compete in the world (Exchange of middle and high schools 30%...)
- Number of municipalities, municipal staff, buildings, roads, schools, budgets, and compact cities
 All halved

Halving social benefits X 20% consumption tax, 20% corporate tax, and 20% income tax (flat tax system)



Have ambition!

Life is once. Let's challenge ourselves to the world with all our energies!

- Know the fate
- Dream, passion, and pleasure
- Continue, walk on, do until you win
- "planning"