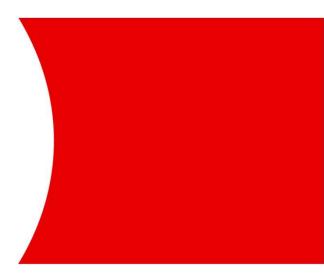
Governance Conference 2019



Digital Transformation Driven by Cities - A Case from Japan



May 22, 2019 Tak Nagumo Mitsubishi UFJ Research and Consulting

MUF

Ibishi UFJ Research and Consulting nber of MUFG, a global financial group ociety 5.0: Japan's Vison for "Super Smart Society"

Conversion between cyber and physical spaces Resolving economic and social problems Human-centered



Source: https://www.gov-online.go.jp/cam/s5/eng/



ociety 5.0: Japan's Vison for "Super Smart Society"

"Be the World's Most Advanced IT Nation."

Resolve economic and social problems with new technologies such as IoT, AI, and robotics, in a human-centric manner...

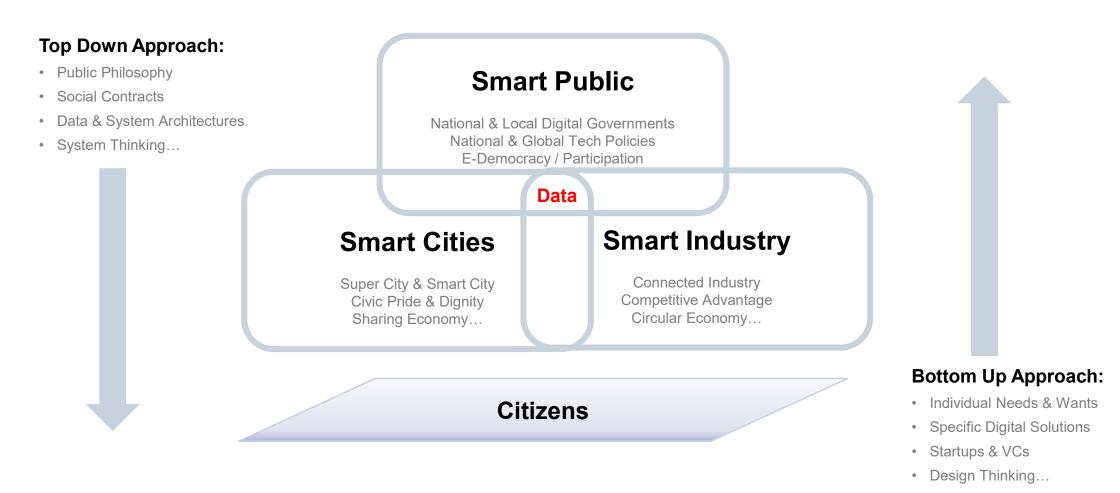




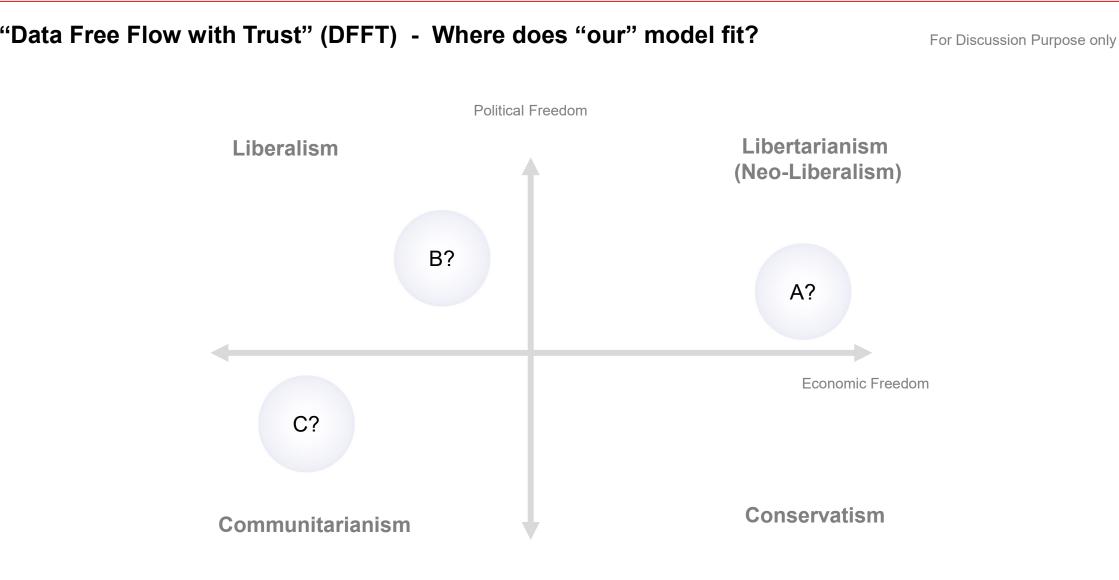


Human Centricity Economic advancement Resolution of social problems The demand for energy is increasing Reduction of GHG emissions The demand for foodstuffs is Increased production and reduced loss increasing of foodstuffs Lifespan is becoming longer, and the Mitigation of costs associated with the aging society is advancing aging society International competition is Promotion of sustainable becoming increasingly severe industrialization Concentration of wealth and regional redistribution of wealth, and correction inequality are growing of regional inequality Incorporating new technologies such as IoT, robotics, AI, and big data in all industries and social activities, provide goods and services that granularly address manifold latent needs without disparity to balance economic advancement with the resolution of social problems

Citizen-centric digital transformation requires building an ecosystem among public, private, and citizen sectors Optimizing the balance between top down and bottom up approaches remains as key challenge.

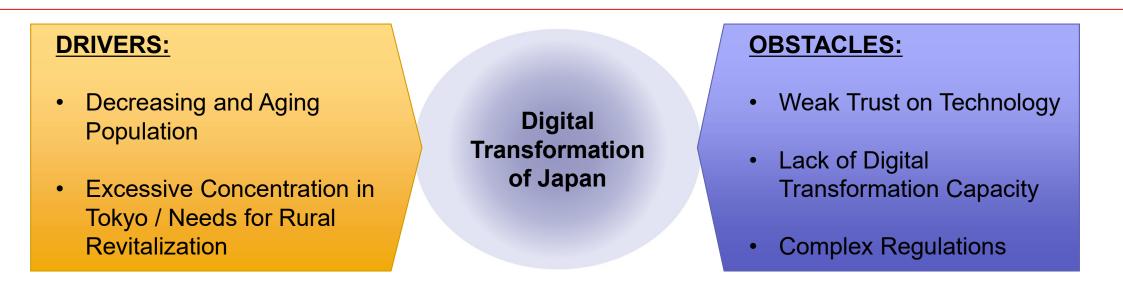


Reality ... Philosophical Issues over the Ownership and Use of Data





ey Challenges in Japan



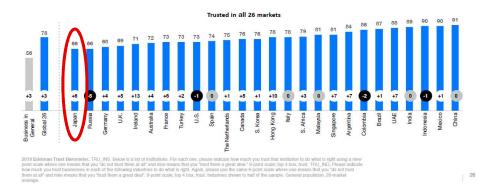


JAPAN'S DEMOGRAPHIC SHIFT TOWARDS AGING SOCIETY

TRUST IN TECHNOLOGY LESS RESILIENT IN DEVELOPED MARKETS

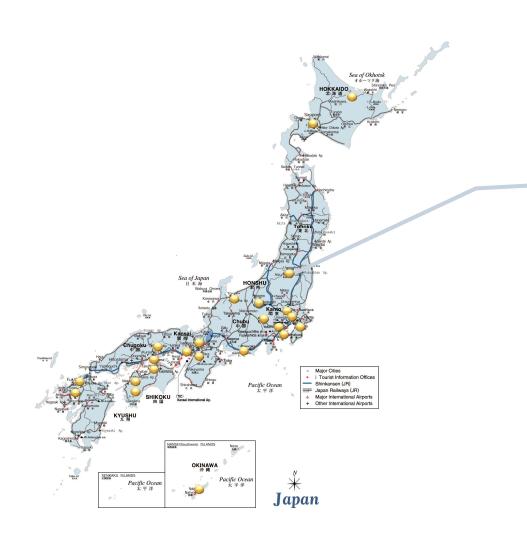
Distrust Neutral Trust

Percent trust in the technology sector, and change from 2018 to 2019





izuwakamatsu: From Recovery to Innovation - a Case from "Samurai City"



Aizuwakamatsu City

- Prefecture: Fukushima
- Population: App. 122.6K
- Area: App.383km^{*}
- Industry: Electronic devices, precision machines, nonferrous metal, sake, lacquerware, rice farming
- University: Aizu University



https://www.city.aizuwakamatsu.fukushima.jp/docs/2013101500018/files/smartcity_panphlet.pdf http://www.orangesmile.com/common/img_country_maps/japan-map-0.jpg



utline of Aizuwakamatsu Smart City Story



母子健康情報サービスの画面(イメージ)





igital Comm. Platform



Smart Healthcare



"City OS" Implementation



Smart City AiCT Faculty Opened on April 22, 2019

Citizen-Centric Ecosystem TalTech – Aizu Univ. Partnership **Benchmarking to Medicon Valley**

8 Measures of Revitalization Smart City Plan

Great East Japan Earthquake (March 11, 2011)

Smart Energy



Smart Tourism



Smart Agriculture



タブレットで水分、養分の量を管理できます。

Mitsubishi UFJ Research and Consulting

https://www.city.aizuwakamatsu.fukushima.jp/docs/2013101500018/files/smartcity_panphlet.pdf; http://www.soumu.go.jp/main_content/000452041.pdf

he 8 Measures of Revitalization: Define Aizuwakamatsu as "Mini-Japan"

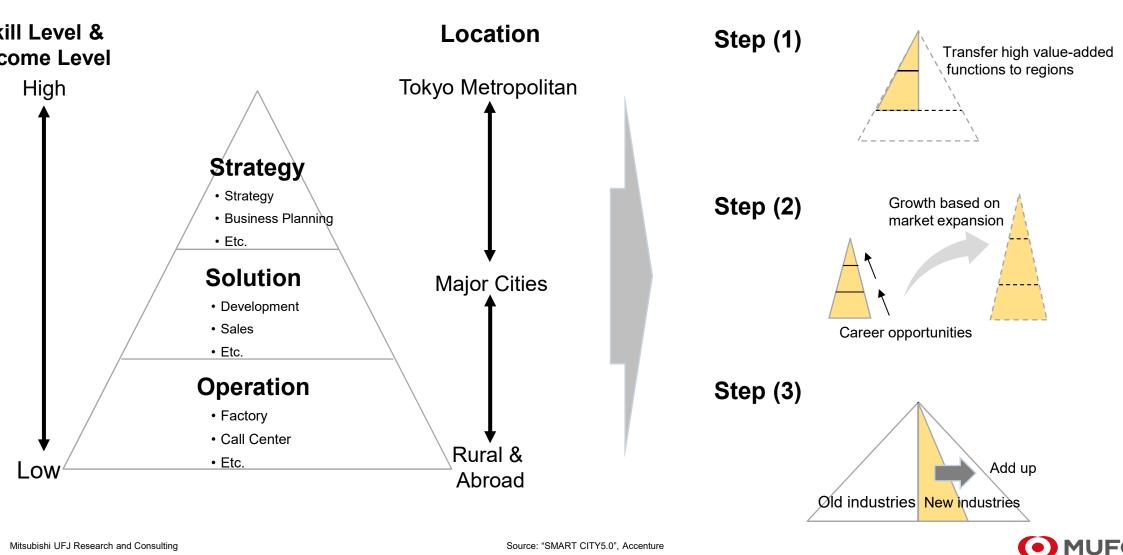


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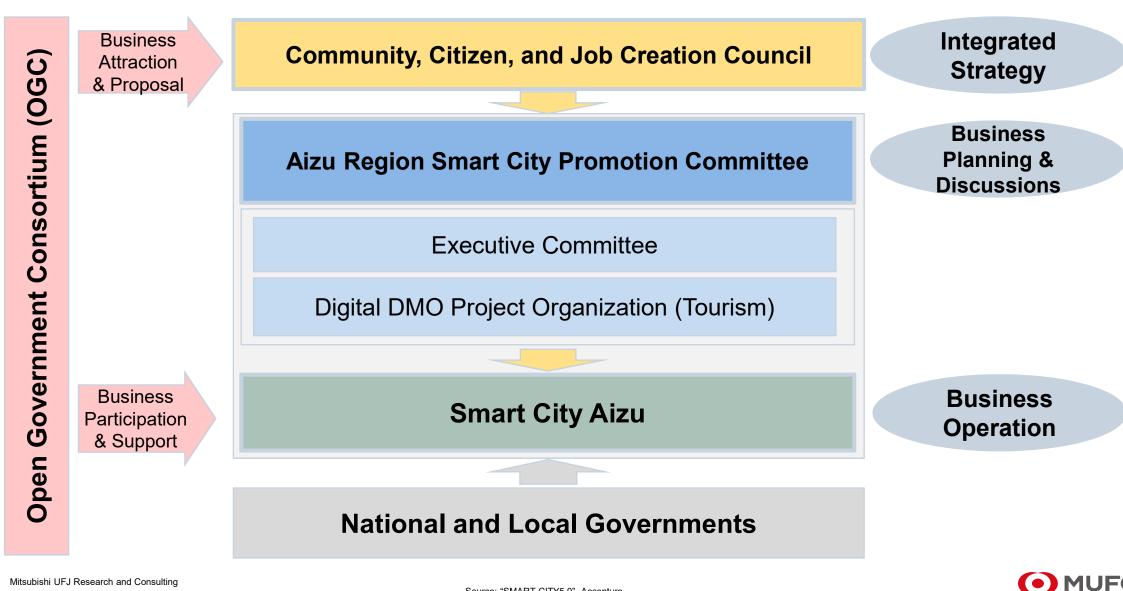
Source: "SMART CITY5.0", Accenture

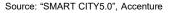


eframe Industry Policy: Transfer and Grow New Industries in Regions



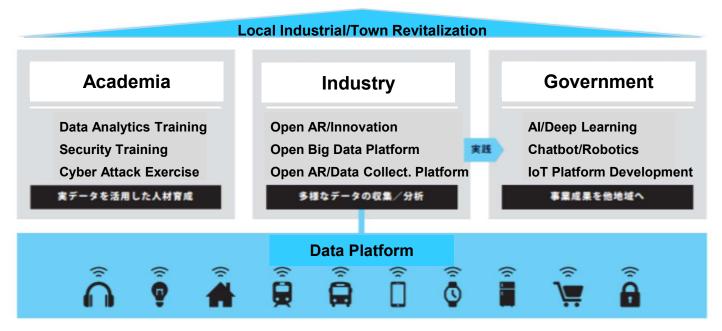
itizen-Centric Ecosystem Design





AIZU DATA VALLEY

Citizens, Tourists, Migrants, Enterprises (Digital Citizen Platform)						
Energy	X Sightseeing	HealthCare	Education	Agriculture	FINTECH	A Mobil
省エネルギーと 再生エネルギー へのシフト	観光客ひとりひ とりに対する魅 力発信	スマートウェル ネス / 医療費抑 制	ICT を活用した 教育推進	スマートアグリ カルチャー	ブロックチェーン /地域通貨/地 域商社	ライドシェア 自動運転





Define City as "Mini-Japan" – Focus on Issues, Start Small, Grow Bigger

Reframe Industry Policy for Regional Revitalization

Citizen-Centric Ecosystem - Gov't + Business + University + Citizens

Beyond Silo - Smart City Model with "City OS"

