

Yuri Arakida 横浜市副市長 荒木田百合 Deputy Mayor of Yokohama City

5/24/2019

Outline

I . Brief History of Yokohama

II . Behavioral Insights in Yokohama

III. YBiT (Yokohama Behavioral insights and Design Team)

Yokohama Overview

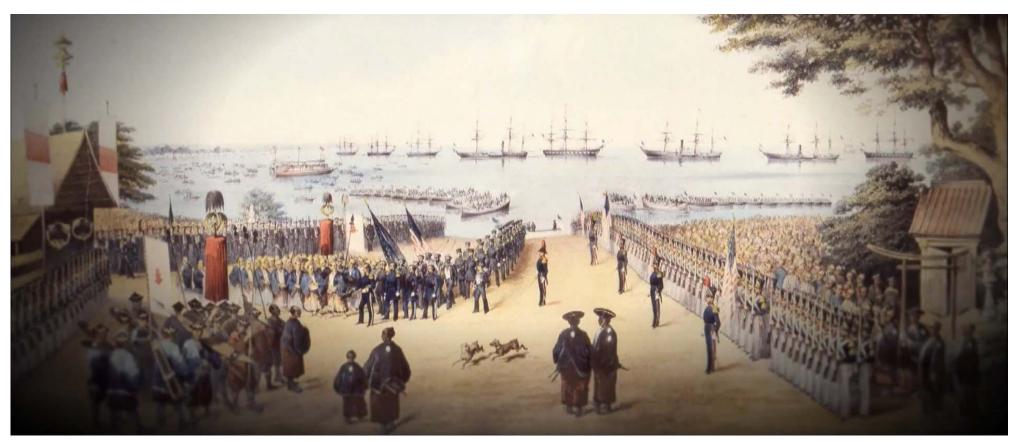




- Area: 435 km²
- Population: 3.74 million
- GDP: 11.5 billion USD

Yokohama's Influence on Japan's Modernization





Yokohama Archives of History Collection

Sharp Population Increase



[1985] 3 million people **Along with** rapid economic growth [1945] **Population** 625 thousand people

Five Major Urban Issues









Water resources



Pollution



Traffic



Overdevelopment

Two Waste Management Case Studies





Waste

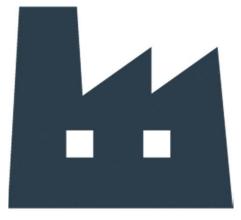
2003-2012 Result





Waste Reduced by 43%

※Target was 30% reduction



The closing of 2 out of 7 Incineration plants, leading to \$1 billion in savings

Awareness Efforts





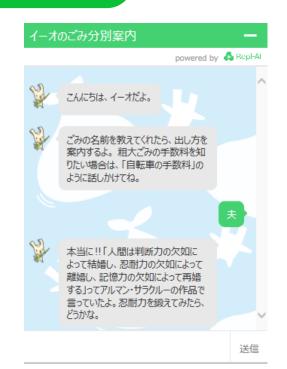


11,000 information sessions in 2 years (2002-2003)

Chatbot for Garbage Separation



Tell me how to discard my husband.



Armand Salacrou said, "People get married by misunderstanding, get divorced by impatience, get remarried by forgetfulness"

How about forging your patience?



Environmental Future City



2011







2018

SDGs Future City













SDGs Future City



Yokohama has established

Yokohama SDGs DESIGN CENTER

to solve SDGs relevant issues with diverse stakeholders.

II. Behavioral Insights in Yokohama

Nudge YOKOHAMANudge YOKOHA

Yokohama Smart City Project

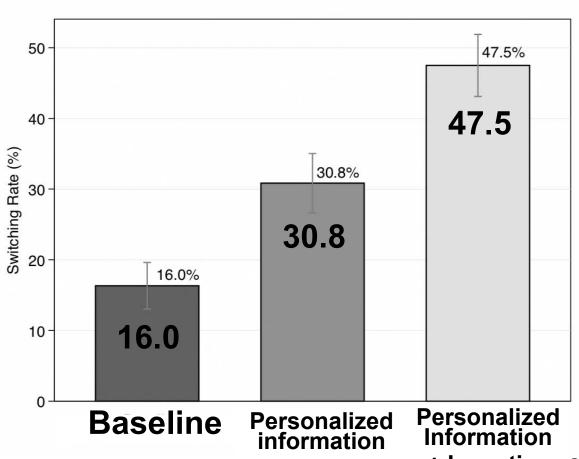


In Yokohama city, we have coordinated with 34 businesses and implemented 15 projects.





Switching Rate by Treatment Group



+ Incentive Source: Ito, Ida, Tanaka (2016)

Energy Conservation Project Leveraging BI



"Let's Join International Sports Events by Your Energy Saving Action!"

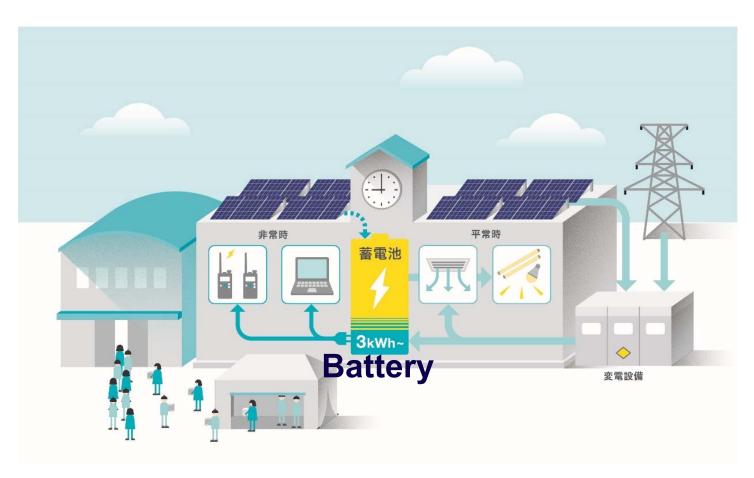


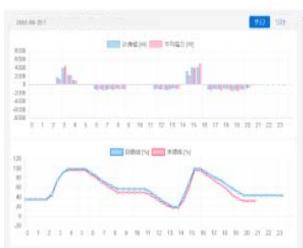
Checklist for Energy Saving

ジェ 悲鳴 省エネ行動リスト	できた 日数	CO2 削減量 (g) (1 日当たり)	AH (g)
洗濯物を干すときは、乾燥機ではなく自然乾燥(天日干し)してみよう。	>	< 1025 g	g
② 車でおでかけするときは、エコドライブを こころがけよう。	>	< 943 g	g
③ エアコンの設定温度を1℃下げてみよう。	>	(149 _g	g
④ 冷蔵庫の設定温度は「自動」モードか、 「中」モードにしよう。	>	< 80 g	g
⑤ シャワーを1分短くしてみよう。	>	< 79 g	9
⑥ 炊飯器の保温機能は必要なときだけ使おう。	>	< 59 g	g
⑦ 冷蔵庫の中身はすっきり整理しておこう。	>	< 57 g	g
⑧ エアコンのフィルターを 月に1~2回掃除してみよう。	(海際してからの日報)	< 54 _g	g
⑨ 明かりのつけっぱなしはやめよう。	>	< 26 g	9
④ テレビのつけっぱなしはやめよう。	>	< 22 g	g
① 部屋を片付けてから、掃除機をかけよう。	>	< 7 _g	g

Virtual Power Plant (VPP) Project









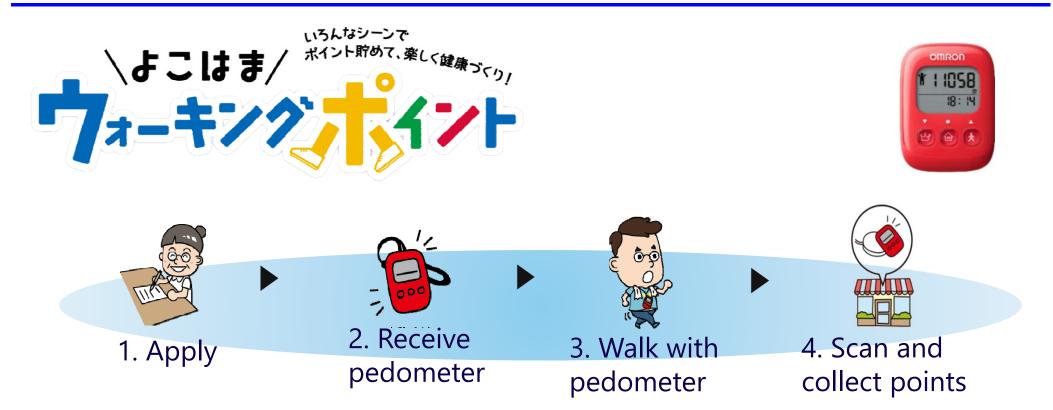
Aging Society and Declining Population





Yokohama Walking Points Project





More than 300,000 Yokohama residents currently participate!

Application in Terms of BI





Attractive Walking Course 1,946 1,717,131 Graph Caph Course Photo The state of the state

Timely

Pop-ups appear when a new mission is added.



Social



Great Effect in 2018



Half of the participants developed exercise habits. 41% realized health improvement

- ✓ Metabolic syndrome, 13%↓



Customers traffic in 35% of participating shops increased.



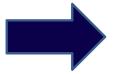
41% of participants are more socially connected.

Specific Health Checkups





Health checkups focusing on visceral fat for early detection of non-communicable diseases



21.9%(2017) **40.5**%(2023)







Cardiovascular Disease: second cause of death



Cardiac Rehabilitation Enhancement in Yokohama for the Next generation with a Novel approach







Exercise × **Medication** × **Food**



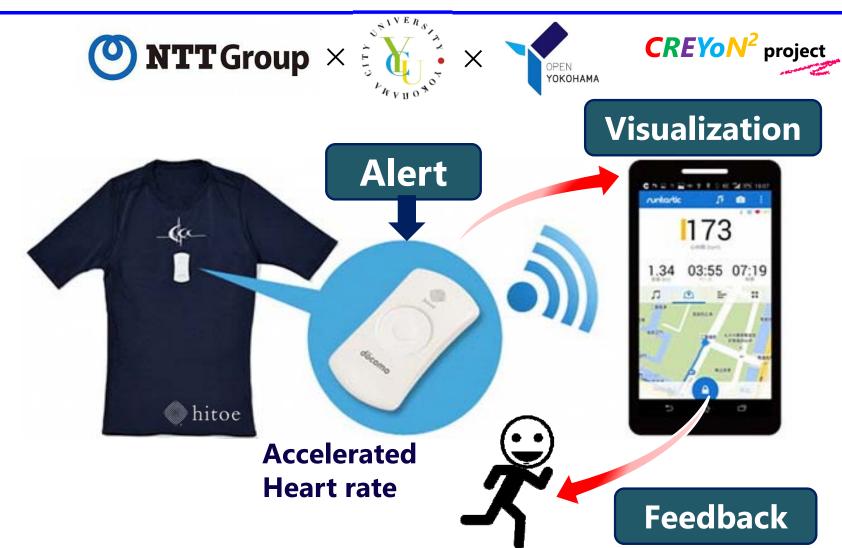
Decreases recurrence of CVD and healthy life expectancy!!

Behavioral Insights × **Technology**



=> BI-Tech







III. YBiT (Yokohama Behavioral insights and Design Team)

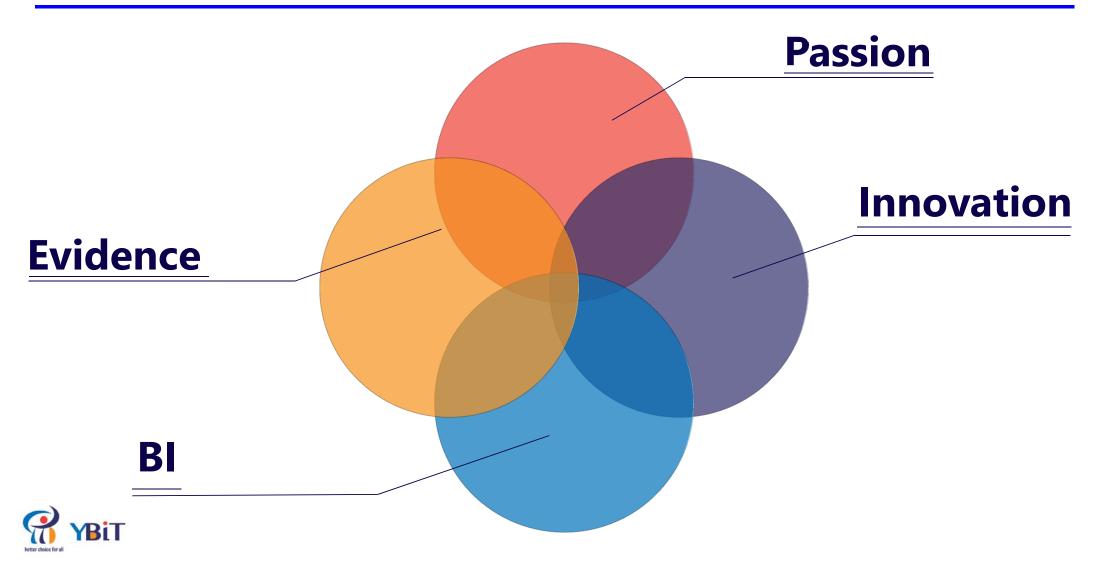
```
**Nudge YOKOHAMA**Nudge YOKOHA
```



Yokohama Behavioral insights and Design Team

Vision





Four Key Strategies

















EAST

Four simple ways to apply behavioural insights



Utilization



EASTとは

- ✓ 行動変容を促す施策の検討時に活用できるフレームワーク (頭文字をとり、「EAST」)
- / 英国BIチームが、研究と学術文献に基づいて作成。
- ✓ 効果的な施策について考える際、シンプルで記憶に残るフレームワークを持つことが有用。

簡単に (Easy) E-1 デフォルト機能の活用

- IC E-2 面倒な要因の減少

E-3 メッセージの単純化

印象的に A-1 関心をひく (Attractive) A-2 インセンティブ設計

社会的に S-1 社会的規範の提示 S-2 ネットワークの力の活用 S-3 周囲へ公言させる

タイムリーに T-1 介入のタイミング T-2 現在バイアスを考

(**Timely**) T-3 対処方針を事前に計画





Workshops







Program Creation





Level 3





Level 2





Level 1









Advisory board











Dr. Fumio Ohtake

Dr. Takeharu Yamanaka

Dr. Takanori Takebe

Dr. Shusaku Sasaki

Dr. Koichiro Ito

Dr. Hiroshi Murayama









Behavioral Sciences Team

for a better choice



Reason for smooth Expansion No. 1







Reason for Smooth Expansion No. 2







We are YBiT core members!
(All core members are Yokohama City officials.)

Thank you for your attention.