

Evidence-Based Policymaking in Kobe City: Leveraging Big Data for Local Governance in Japan

December 4, 2025

Chief Financial and Human Resources Officer, City of Kobe

MASAKI Yusuke



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City of Kobe

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Graduate School of Public Policy
University of Tokyo

Consulting Fellow
Research Institute of Economy, Trade and Industry
Government of Japan

- 2007: Junior Researcher, Political Funds Regulation Division, Ministry of Internal Affairs and Communications
Analyst, Municipal Finance Division, Yamaguchi Prefectural Government
- 2009: Policy Planner, Administration Improvement Division, Ministry of Internal Affairs and Communications
- 2010: Policy Planner, Decentralization Reform Office, Cabinet Office
- 2011: Senior Policy Planner, Decentralization Reform Office, Cabinet Office
Deputy Director, Energy Policy Division, Kumamoto Prefectural Government
- 2013: Deputy Director for Policy Coordination, Governor's Office, Kumamoto Prefectural Government
- 2014: Director, Environmental Policy Division, Kumamoto Prefectural Government
- 2015: Director, Finance and Prefectural Assembly Division, Kumamoto Prefectural Government
- 2016: Master's Program at Harvard University Graduate School (International Fellow, Nippon Foundation)
- 2018: AM, Graduate School of Arts and Sciences, Harvard University
Deputy Director, Local Administration Management Assistance Office, Ministry of Internal Affairs and Communications
- 2020: Associate Professor, Graduate School of Public Policy, University of Tokyo
- 2022: Chief Digital Officer, City of Kobe
- 2024: (Concurrently) Project Associate Professor, Graduate School of Public Policy, University of Tokyo
- 2025: Chief Financial and Human Resources Officer, City of Kobe (current position)

Overview of Kobe City

神戸スマートシティ

Government-Designated City

(9 Administrative Wards, 10 Ward Offices, 2 Branch Offices)

Population: 1,488,568 (7th among designated cities)

Area: 557.05 km² (9th among designated cities)

*As of May 1, 2025

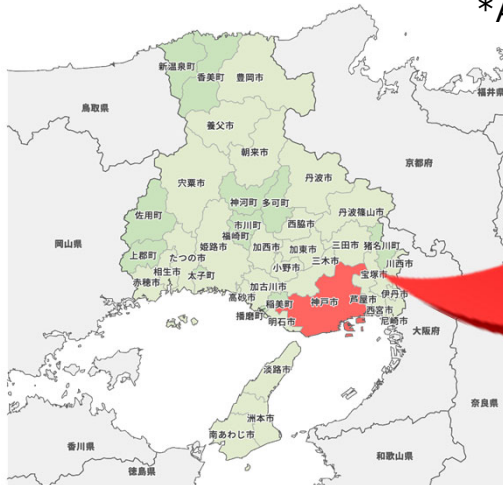
Number of Staff: 21,514

General Administration and Enterprise Accounting: 10,317

Education: 9,690 (including 7,731 teachers)

Fire Department: 1,507

*As of April 1, 2024



Map-It マップイット(c)

Tourist Attractions in Kobe City

神戸スートシティ



Meriken Park



Former Foreign Settlement



Kobe Beef



BE KOBE Monument



Arima Onsen



Rokkō Arima Ropeway

デジタルツイン スパコン富岳を
活用した災害時避難シミュレーション

オープン
データ 148 データセット

SaaS型都市OS

スマートこうべ

年間 115 万PV

7分野
35プロジェクト

スマートシティ
プロジェクト

ペーパーレスの推進
(無線LANの導入)
紙使用量(2017年比)
57.8%削減

業務効率化

ドローン 測量・点検・広報・防災

AI RAG搭載 庁内FAQ 包括的
1,500 アクセス/日 AI 条例
生成AIチャットを
12,000人で利用

キャッシュレス
172か所

神戸データラウンジ
全庁共有
ダッシュボード 163件

データ利活用
方針策定

政策効果分析
Rユーザ 93人

統合型GIS
利用
職員数 1,500 人/月

Data StaRt
Award
3年連続受賞

データアナリスト
530人達成

データ利活用
EBPM

住基データによる
独自将来人口推計

神戸スマートシティ
神戸市のDXの取組

2025.04 ver.

DX人材

内部人材育成 DX
リテラシー 142人

外部人材活用 25人

スマート自治体 フロントヤード・バックヤード改革

スマート区役所
バックヤード
業務集約

行政手続のスマート化
スマート化率
(オンライン化) 68.7%

業務アプリの内製
2,000 アプリ

e-KOBE
利用者アカウント 職員アカウント
43万 2,400

RPA
業務削減
17,849 時間
(年間)

システム標準化
7分野でのカスタマイズ全廃

デジタルデバйд対策
支援数 22,176人

Kobe City's AI and Data Utilization Initiatives Featured in Various Media神戸スマートシティ


ニュース

日本でひとつと便利に**お役立ち**
[Q1010](#) [LINE](#)とつながる等39% 上昇あり

[サーチデータ入力](#)

[Q](#)

[トップ](#)
[画像](#)
[ライブ](#)
[エンタメ\(スポーツ\)](#)
[オリジナル](#)
[みんなの意見](#)
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[生中](#)
[国内](#)
[国際](#)
[経済](#)
[エンタメ](#)
[スポーツ](#)
[IT](#)
[科学](#)
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[健康](#)

全国初の「AI条例」 神戸市が9月から施行。オープンデータサイ ト「神戸データラボ」の第3弾も公開

5/21(水) 9:03 配信







神戸市は、全国初となるAI条例を2024年3月に制定、2024年9月から施行する。その内容について、読者のみなさんにわかった。

【画像】神戸市 デジタル監査(最高デジタル責任者)の正体 初公開

写真：PC Watch

AI条例では、神戸市の職員がAIを利用する際に、公共機関の知人を禁止し、選定での契約においても、AIに判断を委ねることなく、自らの責任で判断することを定めたほか、生成AIの利用に当たっては、誤用した結果が外部に漏れる影響レベルに応じてリスクアセスメントを行い、安全管理を実施することを義務づけた。

神戸市の事業を塾生等第三者にに対しては、AIを適用する場合や、塾生と知りえた情報や半信AIに入力する場合などは、神戸市と塾生協議することを定めている。

improve Watch	新着記事	PC	デジタル	AI/254	AI	家電	ライフ	クルマ
金沢1	こどもIT	Car	トヨタ	グー	UAW	HARRY	MANGA	AI

ニュース

KOBE Journal イベント グルメ ニュース

神戸市が、国内の人口に関するデータをまとめた『全国版』公開してる。グラフなどでわかりやすく表示

[illegible]

INTERNET Watch
Impress Watch
INTERNET
PC
デジタル
AKIBA
AV
家電
ケータイ
クラウド
車の社
ことごとIT
Car
トラベル
グルメ
GAME
HOBBY
MANGA
AS
旅行

地図と位置情報

神戸市さん、データ活用しすぎ……またまたやってくれました！ 無料で誰でも使える「統計ダッシュボード」拡充
新たに「日本の地域別年末推計人口」と「住民基本台帳人口移動報告」を公開

片岡 壽明 2024年5月15日 06:55

神戸市は4月30日、国立社会保障・人口問題研究所（社人研）が2023年12月に公開した「日本の地域別将来推計人口（2023年）」と、総務省が2023年1月に公表した「住民基本台帳人口移動報告」に基づく統計ダッシュボード（複数の情報をまとめて表示・分析できるツール）を公開した。同市のウェブサイト「**神戸データラボ**」にて誰でも無料で利用でき、神戸市だけでなく全国のデータを参照することが可能だ。

空間情報クラブ

GIS基礎講座 GISソフト「GIS」活用 導入事例・活用例 AI地理学習 新着 HL

[位置情報アプリ](#) [データ](#) [教育](#) [PLATEAU（プラトー）](#) [書籍紹介](#)

[O](#) [P](#) [D](#) [K](#) デジタルサイン 災害対策・防災 [気象](#)

H3版 「プラトー」活用可能のシステム

[コラム](#) [GIS活用へのススメ](#) [掲載](#) [募集](#)

神戸市がオープンデータを活用した全国版統計情報ダッシュボードを公開

© 2024年04月13日

[目次](#)

無料ダウンロード可能
価格：2,800円（税別）
※送料別途見積り

トップ	A5	A3	B1	ビジネス	TG03	Web Pro	デジタル	iPhone/Mac	AZ	自研PC	AV	プロペラ	システム	スタートアップ
Apple	富士通	SCEL	masec	Rinnai/C	FUJITSU	Secore	Acer	SHARP	NISSEI	Mitsumi	NEC	Hiwin	LIVEX	Lenovo
HP	FLYCOM	AMIO	Radcom	ARUBA	ASUS	ASUSTEK	AsRock	Credent	HEMART	Sports	HealthTech	sports	Vitalis	HTC
Realtek	富士通	MSR	MSR	SanDisk	Western	Advent	USB	WIDE	WIDE	WIDE	WIDE	WIDE	WIDE	WIDE
Business	サイバー	データ	サンシャイン	SHIMADZU	インテック	インテック	インテック	インテック	インテック	インテック	インテック	インテック	インテック	インテック

ポスティング・印刷/イロドリ

最新！ポスティングが保内イロドリ！弊店と提携

【お問い合わせ】
〒100-0001 東京都千代田区千代田1-1-1
TEL: 03-XXXX-XXXX FAX: 03-XXXX-XXXX
Eメール: info@business.jp

【要約】「富士通x ASCII.jp」富士通の新しい価値観を伝える提案

オープンデータを数回検索する「神戸データラボ」には、以下のような特徴があります。

「市内の全馬道が自らタッシュボード作成」神戸市のデータ活用と人材育成

2024年04月10日 08時00分更新 文：大野真樹郎 写真：坂本「TECH ASCII.jp」

[全文を読む](#) [シェアする](#) [コメント](#) [共有](#) [お気に入り](#) [お問い合わせ](#)

神戸市は、2024年4月30日、全国の人口分布や移動、就業状況などのオープンデータを公開するダッシュボード「神戸データラボ」にて、新たに国土社会政策・人口問題研究所（特任所長）の「日本の未来VUI研究所で人口（2023年版）」と、経済産業省の「日本未来社会人口総覧」に基づきデータを提供しました。これにより、計8種類のオープンデータが利用可能になった。

神戸市のデジタル庁（調査デジタル専任局）である正木祐輝氏は、「神戸データラボ」は、1日平均500件のアクセスがあり、政府認定研修をはじめとした全国的な自治体間で政策機軸に活用しているケースや、民間企業、個人での利用も増えている」と述べる。

Kobe City's AI and Data Utilization Initiatives Featured in Various Media

神戸スマートシティ

Print Media

- PRESIDENT (published 2024.05.03)



- Vaccination patterns have become complex, and providing detailed communication to each target group has been challenging.
- By utilizing generative AI, all personas for eligible vaccination patterns were identified, and ideas for appropriate information provision for each persona were generated.
- Tasks that previously took multiple staff members several days were reduced to half a day's work, and high-quality persona generation was achieved without preconceived notions.
- By having generative AI create drafts for newsletters and social media posts tailored to each persona, both the quality and efficiency of the work improved.



Websites

- The commencement of in-office use of generative AI and the enactment of the AI ordinance have been featured on various websites.

- Nikkei XTECH (2024.03)



- The Nikkei (2023.12)



- Pcwatch (2024.05)



- CNETJapan (2024.05)



Also featured in various other media outlets



Numerous Requests for Inspections, Lectures, Interviews, and Speaking Engagements 神戸スマートシティ

- **In FY 2023**, there were **175 requests** for inspections, lectures, interviews, and speaking engagements.
- As of January 9 **in FY 2024**, there have been **200 requests** for inspections, lectures, interviews, and speaking engagements.



2023 AWS Summit Keynote Speech: Mayor's Appearance



Data StaRt Award

Award for Utilization of Statistical Data in Local Governments

神戸スタートシティ

Organized by: Ministry of Internal Affairs and Communications

Overview: An award system for local governments that advance outstanding initiatives utilizing statistical data.

6th Edition (2021)

● Director-General of SBJ Award

Healthcare Data Integration System

Kobe City Health Bureau, Health Planning Division

Overview:

Aiming to enhance citizen services by promoting health projects based on scientific evidence, we have newly established the "Healthcare Data Integration System." This system links and anonymizes data previously held by various departments, such as medical and nursing care receipt data and health examination data, enabling the analysis of comprehensive data with high completeness.

7th Edition (2022)

● Minister of Internal Affairs and Communications Award

DIY Data Analysis: Kobe Data Lounge

Kobe City Planning and Coordination Bureau, Policy Division

Overview:

To swiftly respond to the rapid changes in the external environment surrounding administration, we embraced a **DIY spirit** of "doing what we can ourselves without relying solely on external experts." This involved building an in-house data integration platform to collect data necessary for analysis, creating an environment for data utilization where dashboards made by staff using BI tools can be safely shared internally, and disseminating easy-to-understand information to citizens. Additionally, staff took the lead in advancing the development of human resources skilled in data utilization.

8th Edition (2023)

● Special Award

Population Strategy Created Through EBPM

Kobe City Planning and Coordination Bureau, Policy Division

Overview:

Focusing on a population strategy based on the two perspectives of "mitigation" and "adaptation" to population decline, we conducted an analysis of factors contributing to population growth using multiple regression analysis with "R." Additionally, we developed original future population projections for Kobe City and created a dashboard overlaying population decline with public services. This has enabled a comprehensive view and discussion of administrative services in relation to population size.

Young Staff Featured in Digital Agency's Owned Media

神戸スマートシティ

○ **Young staff members were featured** in the Digital Agency's owned media, released on platforms such as **"Digital Agency News."**

1 “Four Kobe City Employees Discuss the Reality of ‘Administration × Data Utilization’ ” (Released on May 23)

2 “What Are the Tax Collection Reforms × Data Utilization Practices Implemented by Kobe City?” (Released on June 20)



Smart City Summit in Kobe

神戸スマートシティ

An event primarily for local government officials to experience administrative digital transformation (DX) and learn from advanced case studies nationwide, the "Smart City Summit in Kobe," was held on October 22-23!

Program Overview (Excerpt)

- Keynote Speech & Panel Discussion
- Generative AI Cross Talk
- Drone Cross Talk
- Tableau Cross Talk
- Drone Flying Experience and Case Study Introduction
- kintone Cross Talk
- Data Integration Platform (City OS) Cross Talk
- Data Analysis Workshop Using BI Tools
- Tableau Hands-On Session
- kintone Hands-On Session
- ...etc.

Participation Data

The number of applicants was 445.
(Actual in-person participants: 142; online viewers: over 300)



所属	申込者数 (団体数)
政令指定都市	109 (16)
市町 (県内)	47 (19)
市区町村 (県外)	94 (59)
都道府県	46 (16)
国	13 (3)
民間企業	118 (70)
その他	18 (13)
計	445 (196)



Breakdown of Event Applicants

**3 ministries, 110 local governments,
3 universities, and 80 organizations!!**

- Practice of EBPM in Kobe City
 - ✓①EBPM Regarding the Current Situation
 - ✓②EBPM Concerning Policy Effects
- Preparation of Usable Data
- Development of Personnel Skilled in Data Utilization

Practice of EBPM in Kobe City

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スマート自治体 フロントヤード・バックヤード改革

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7分野でのカスタマイズ全廃

デジタルデバйд対策
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To Flexibly Respond to
Rapid Changes in the
External Environment...

DIY: Do It Yourself

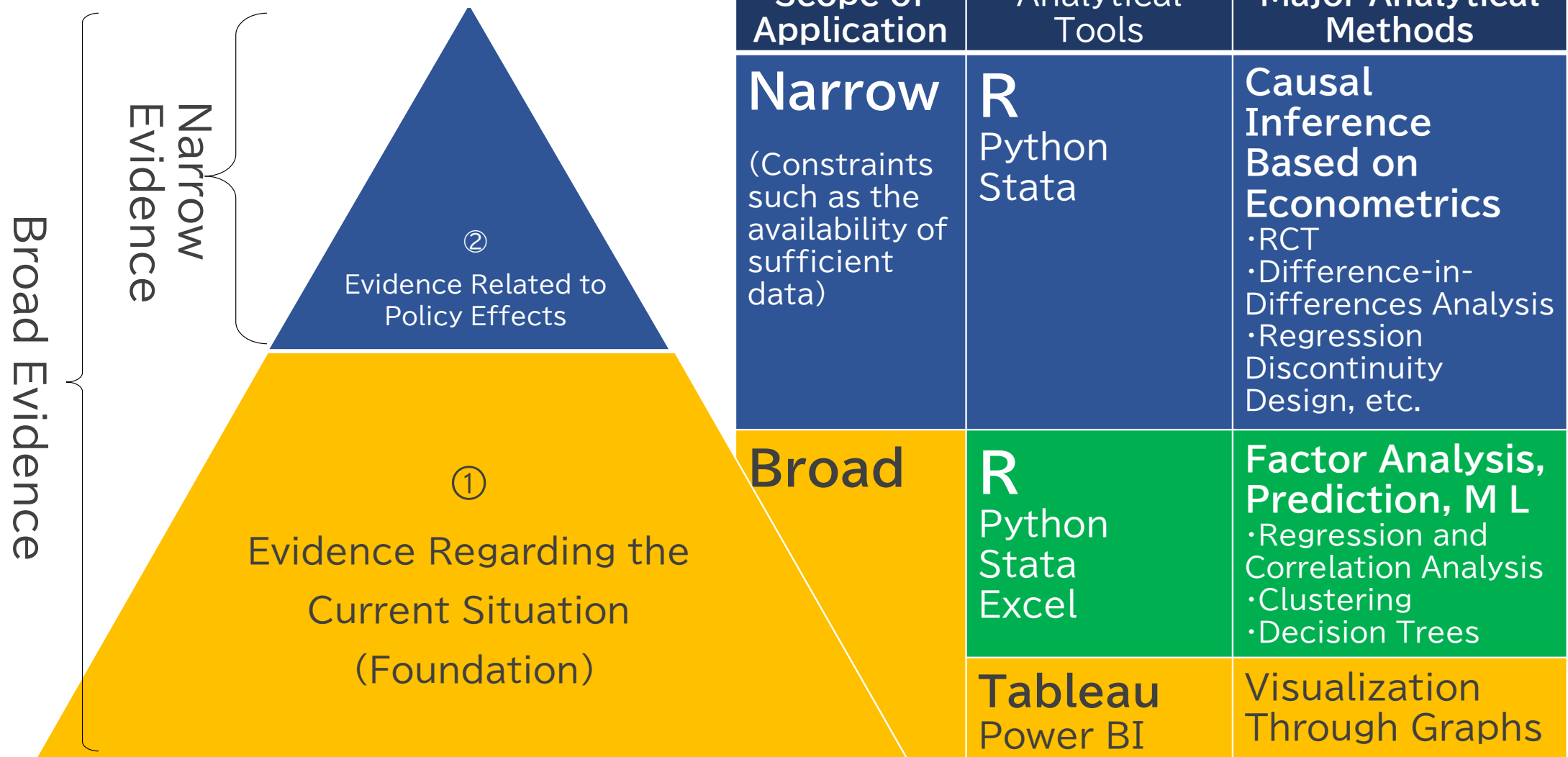
Don't Rely Solely on External Experts

Let Staff Take the Initiative!!

In-House
Development
Using Low-Code Tools

Types of Evidence

神戸スタートシティ



Progress of EBPM in Kobe City

神戸スートシティ

②

Evidence Related to Policy Effects

FY2020-2021

FY2022

FY2023

FY2024・25

Utilization of Existing Evidence

Creation of New Evidence

Utilization of Academic Papers on Statistical Causal Inference

Initiated 23 Analyses Using R

R Training / Introduction (Lectures)

R Training / Practical Application (Exercises)

Enhanced Time for Sharing Issue Awareness with Relevant Departments

Focusing on the Health and Welfare Sector

Building a Framework through the Recruitment of Doctoral Students, University Collaboration, and Utilization of In-House Side Work

①

Evidence Regarding the Current Situation

Promotion of EBPM Using BI Tools (Individual Analysis and Group-Level Dashboard Sharing)

Development

"Kobe Data Lounge" (Internal Dashboard)

"Kobe Data Lab" (Public Dashboard)

Tableau Training

Creation of Original Future Population Projections

Proactive Support for Each Bureau

Enhanced for Better Visibility

Publication of Future Population Projections

Utilized in Policy Meetings by Each Bureau and in Formulating the Next Fiscal Plan

Exploring the Utilization of the Vision in Management

①EBPM Regarding the Current Situation

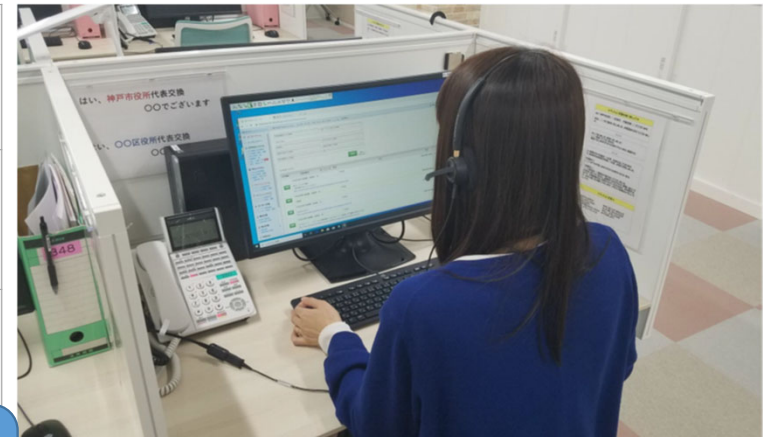
- Kobe City has outsourced the main telephone exchange operations for its 1 city office, 10 ward offices, and 2 branch offices to a private company.

【Overview】

Operating Hours	City Office: Weekdays from 8:45 AM to 5:30 PM Ward Offices: Weekdays from 8:45 AM to 5:30 PM (until 8 PM on Thursdays)
Number of Incoming Calls	Annually: 1,937,622 calls
Number of Answered Calls	Annually: 1,599,002 calls (Response rate: 82.5%)

Kobe City does not publish direct phone numbers for departments, so incoming calls are centralized (resulting in a higher volume of calls handled).

【Operation Booth】

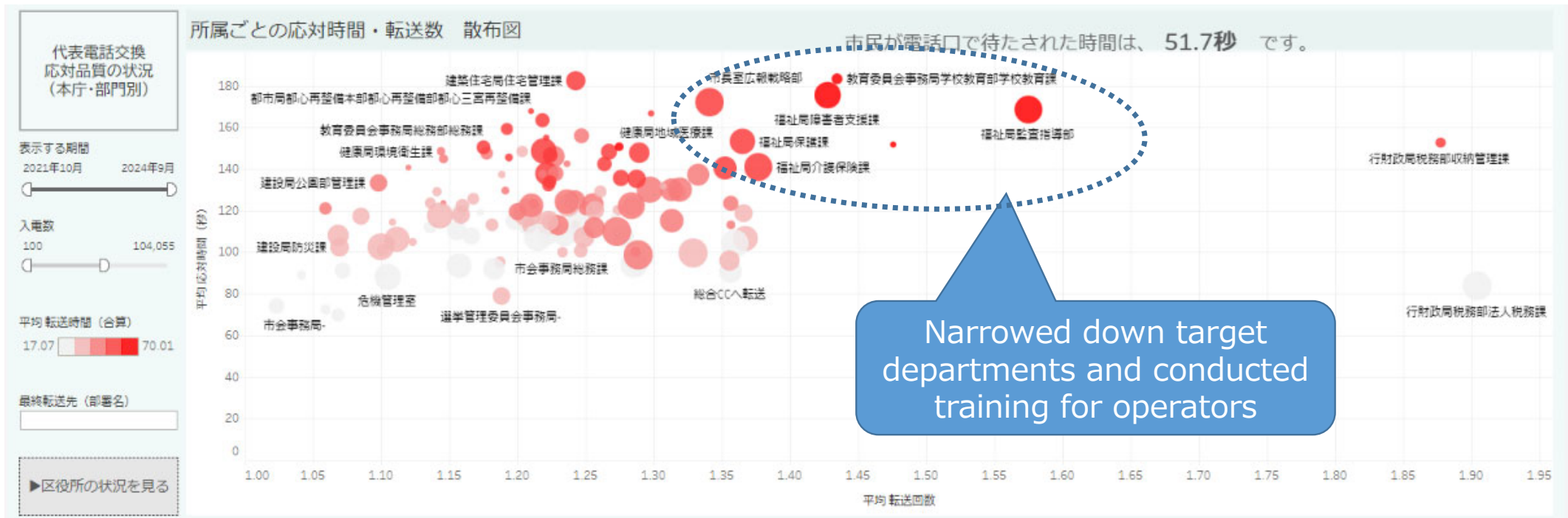


- There were frequent complaints about issues such as “long wait times” and “being transferred from one department to another.”

⇒ The decision was made to identify the issues and consider countermeasures based on data analysis.

Visualization of Response Quality (Identification of Problematic Departments)神戸スマートシティ

- Response quality was visualized in near real time by linking data from the main telephone exchange system (PBX) to Tableau.
- The situation of each responsible department was visualized and shared, to be utilized for data organization and improvement requests.



Verification of Countermeasure Effectiveness (City Office) 神戸ス마트シティ

- A common target value of 120 seconds for “average response time” was set with the contractor, and the daily situation was monitored. (Response time refers to the duration from when the operator answers the call to when it is successfully transferred to staff.)



Before the improvements, response time exceeded 150 seconds (2.5 minutes)...

Effective!

Effective!

Set the target value at 120 seconds

➔ Average reduction of 35 seconds!

Currently, the target value is consistently being achieved!

Verification of Countermeasure Effectiveness (Ward Offices)

神戸スートシティ

- As services at ward offices are more limited than those at the city office, the target value was set at a shorter 80 seconds.
- While verifying the effectiveness of the countermeasures, we continuously rolled out the next initiatives.



- City Office: Average reduction of 35 seconds per call
- Ward Offices: Average reduction of 15 seconds per call



• Citizen Waiting Times (Monthly Estimates)

City Office = 35 sec. × 9,000 calls = 5,250 min.

Ward Offices = 15 sec. × 107,000 calls = 26,750 min.

Time Citizens Were

Not Kept Waiting



32,000 min.

(533 hours)

Kobe Data Lounge

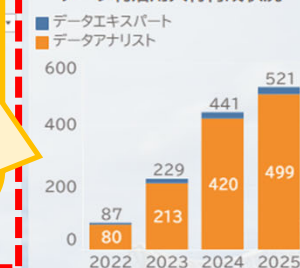
神戸スマートシティ

○ **Full-scale operation began in June 2022 (shared across the entire organization).** Staff can access "Kobe Data Lounge" via the Desknet's software.

Status of Development of Personnel Skilled in Data Utilization and Ongoing Training Opportunities

- Information on the status of development of personnel skilled in data utilization and available training opportunities is posted.
- Encourages training participation to promote the development of personnel skilled in data utilization

データ利活用人材育成状況



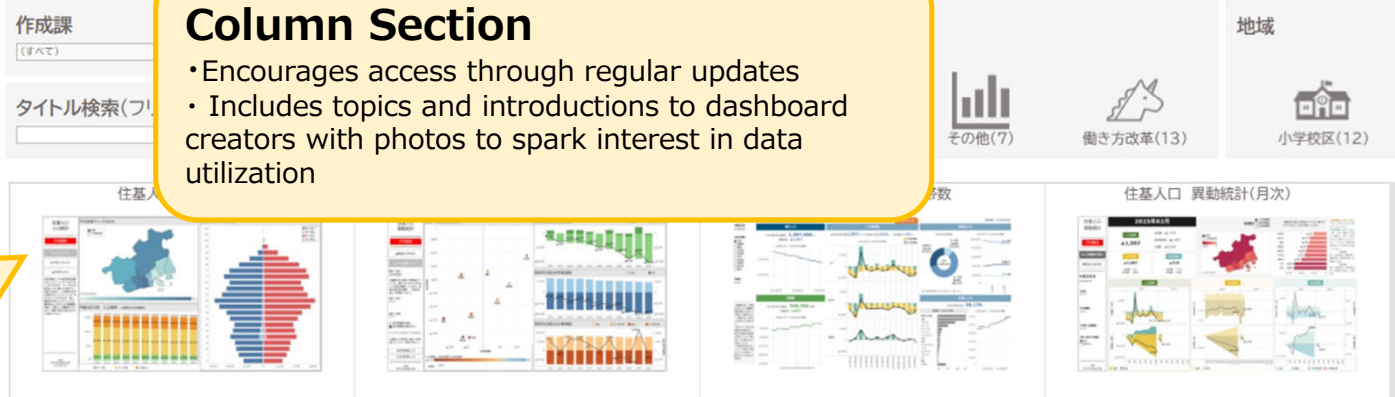
"Kobe Data Lounge" accessible via Desknet's!

Thumbnail Display

- Improved searchability (easier to search than a list)
- Makes first-time viewers want to explore
- Thumbnails like those on YouTube are more enticing to click.

Column Section

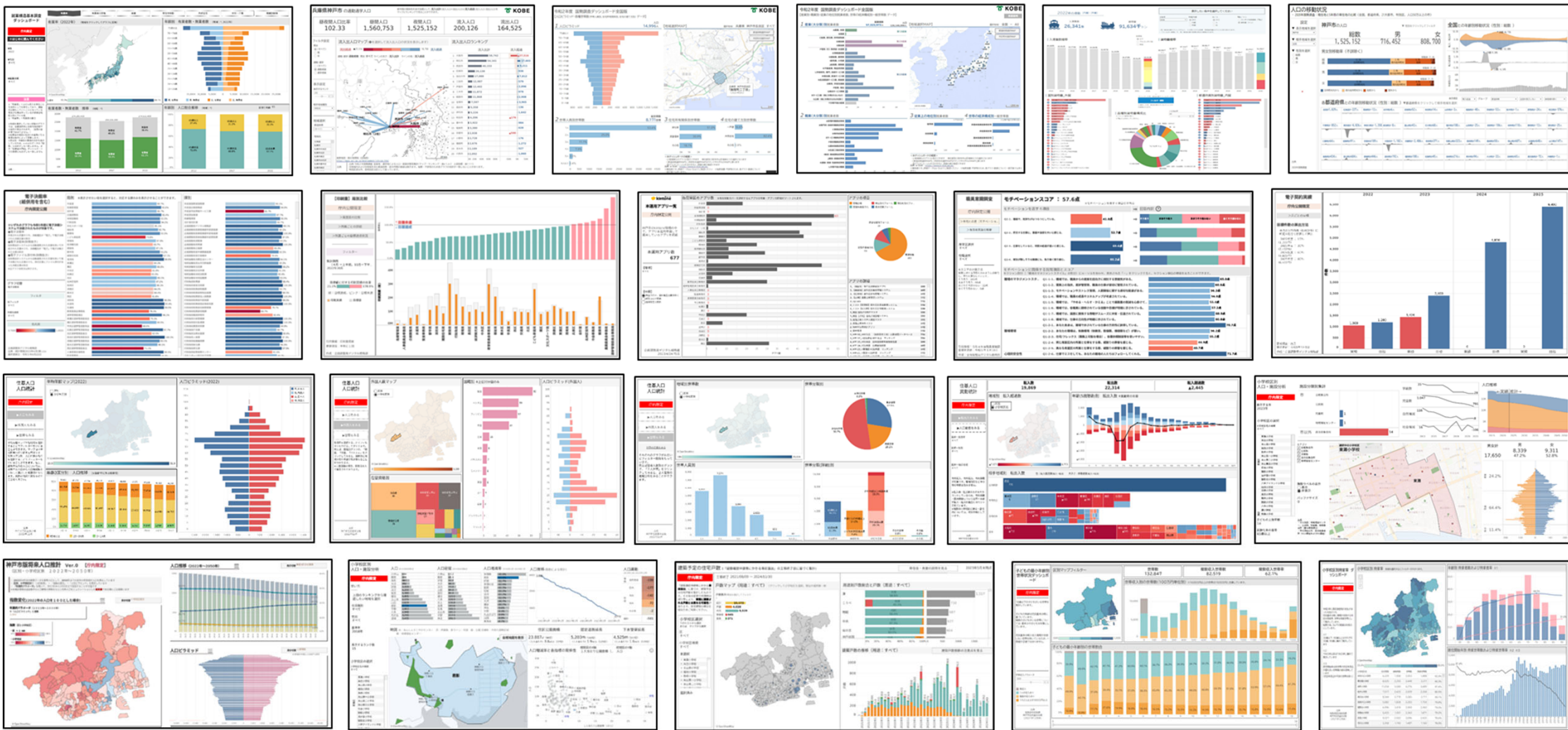
- Encourages access through regular updates
- Includes topics and introductions to dashboard creators with photos to spark interest in data utilization



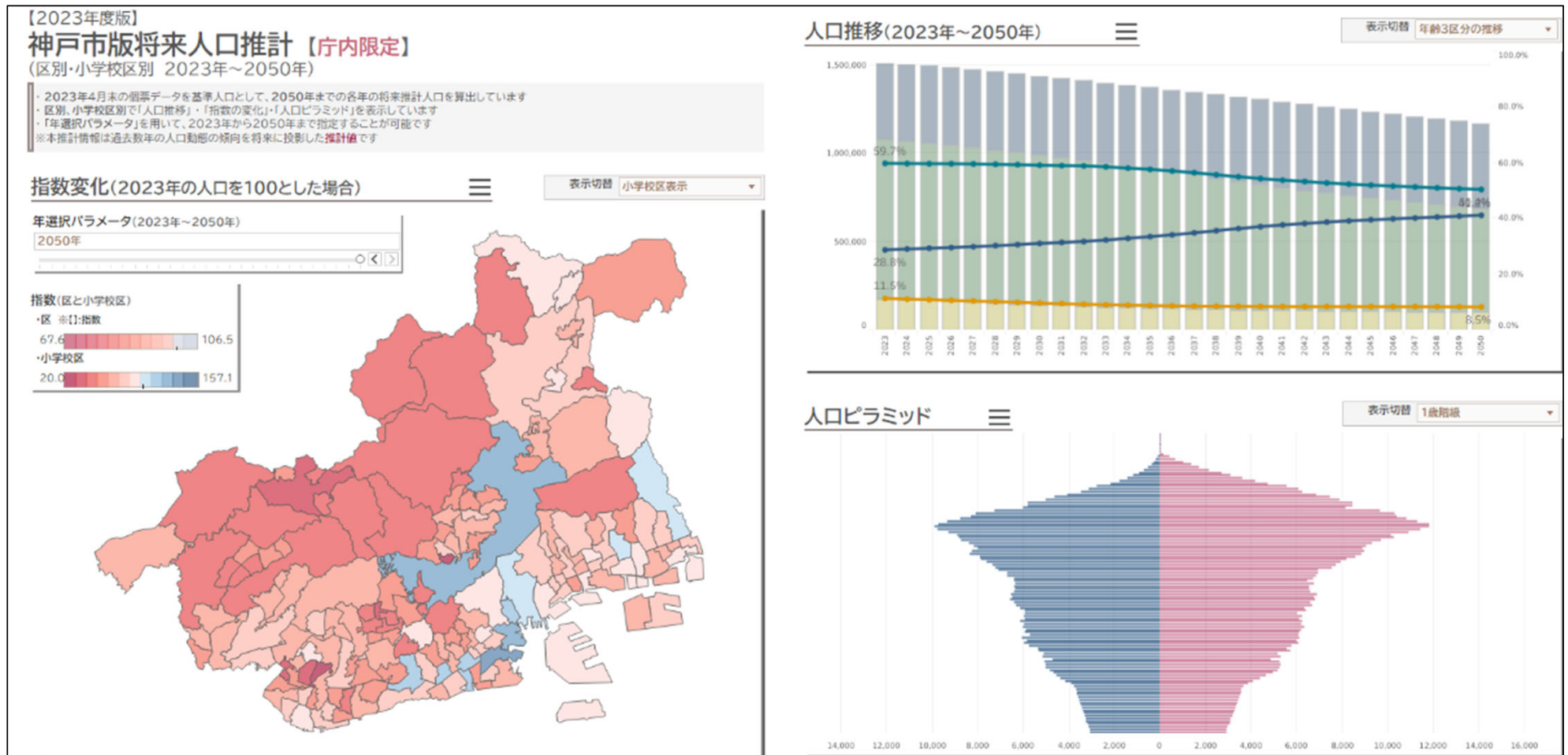
Shared Dashboards

神戸スマートシティ

○Currently, **about 160 dashboards** are posted on "Kobe Data Lounge" and shared among staff.



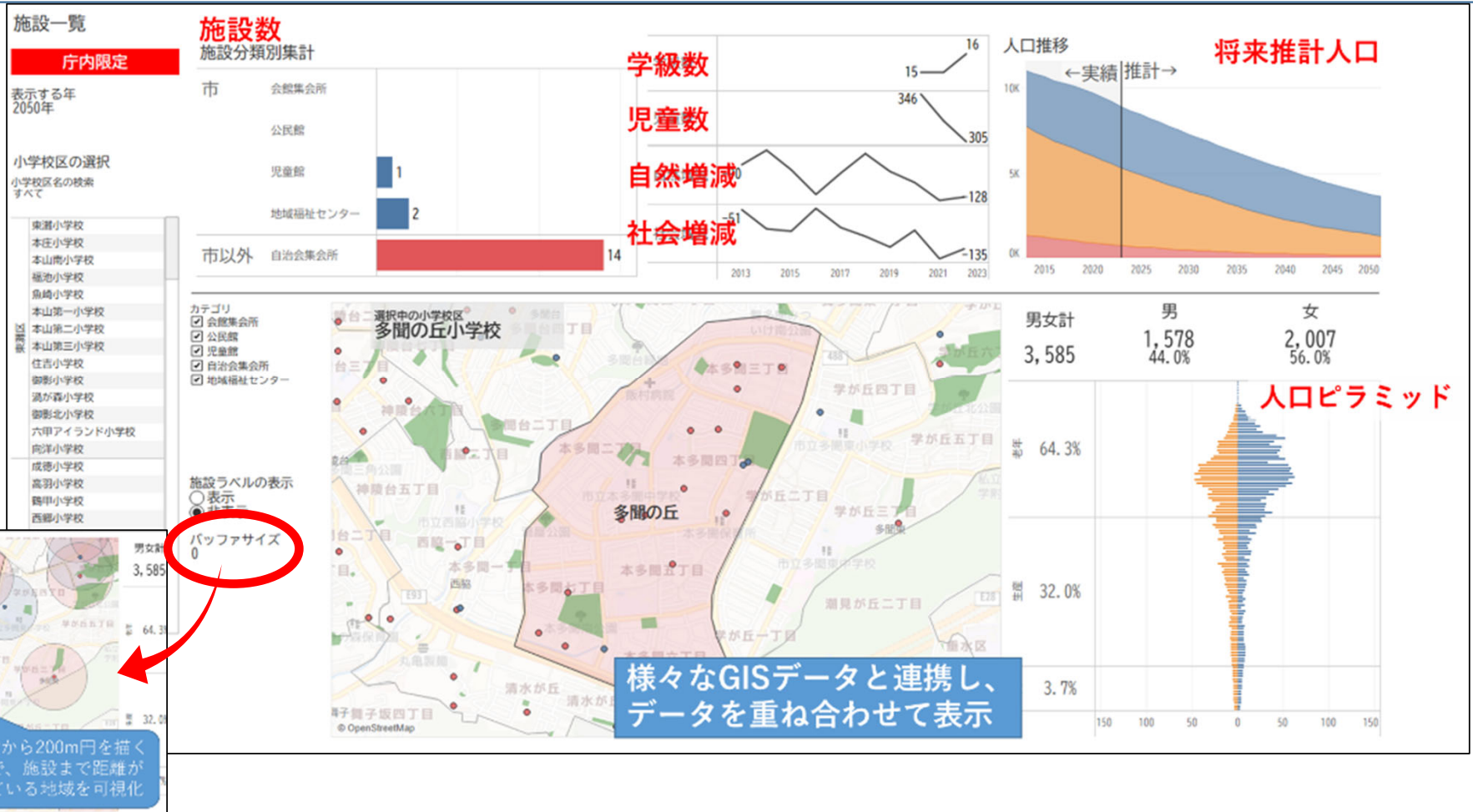
- Utilizing resident registration data, Kobe City independently calculates future population projections by age group and elementary school district, updating them annually.



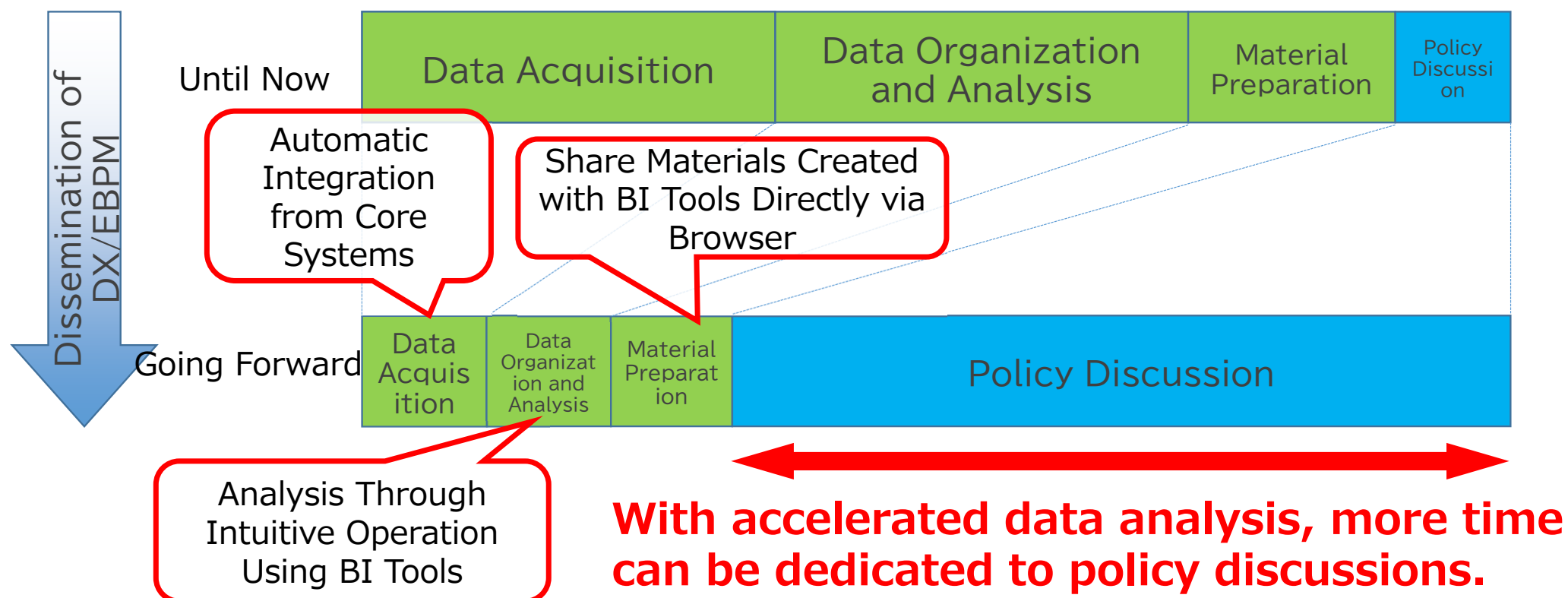
Dashboard Showing Public Facility Placement in Relation to Population Conditions

神戸スマートシティ

○ Created and shared a dashboard that allows for the verification of **population conditions** and **public facility placement** for each elementary school district.



- Intuitive **Analysis and Sharing** Using BI Tools
- **Data Organization** Through Integration with Core Systems

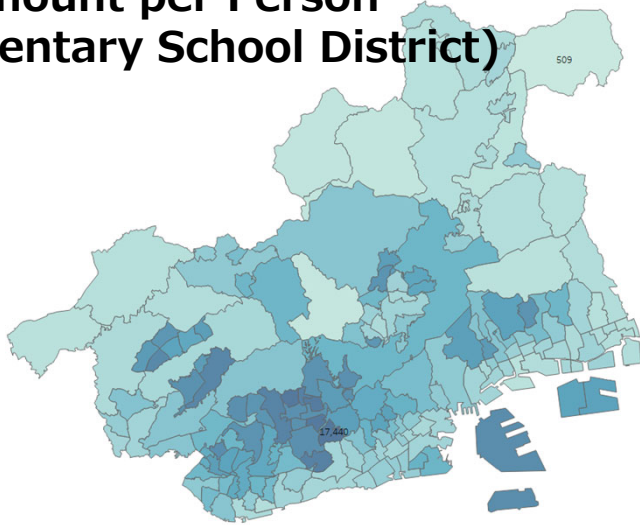


Specific Policy Formulation Example ①: Annual Usage of the Senior Citizen Pass

神戸スートシティ

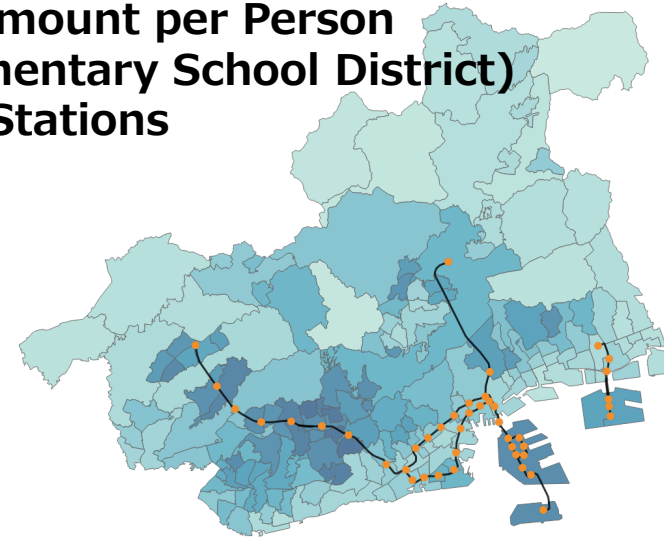
- When observing the annual usage amount per person, it was found that there is about a 34-fold difference, ranging from 509 yen to 17,440 yen, and areas around train stations have consistently higher usage.
- Going forward, the Welfare Bureau will consider measures to ensure the fairness of system usage, such as setting usage limits.

Usage Amount per Person (By Elementary School District)



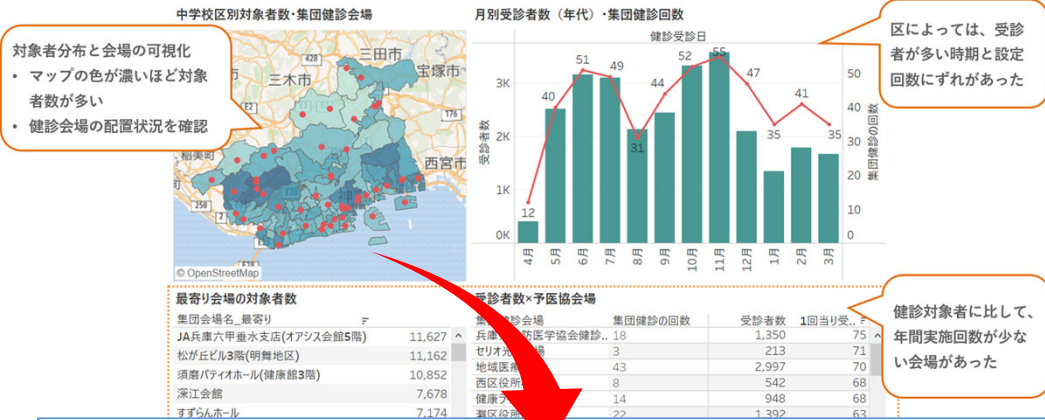
It is evident that the Senior Citizen Pass is used with a range of 509 yen to 17,440 yen per person annually. Additionally, there is variability in usage amounts across different elementary school districts.

Usage Amount per Person (By Elementary School District) + Train Stations



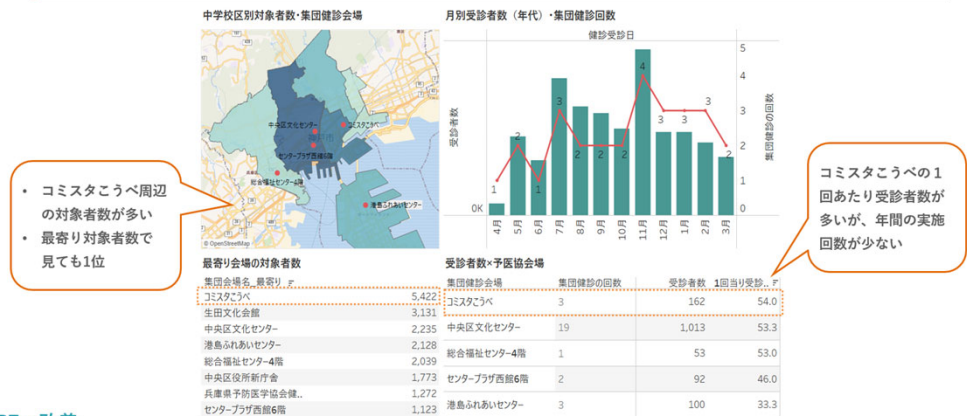
Overlaying train stations where the Senior Citizen Pass can be used on the map reveals that the annual usage amount per person is higher in elementary school districts located near train stations.
⇒It can be inferred that using trains is highly convenient, and residents living near stations benefit more from the pass.

集団健診会場に関するデータの可視化（ダッシュボード化）



Differences in the attributes of eligible individuals and implementation status were visualized by region.

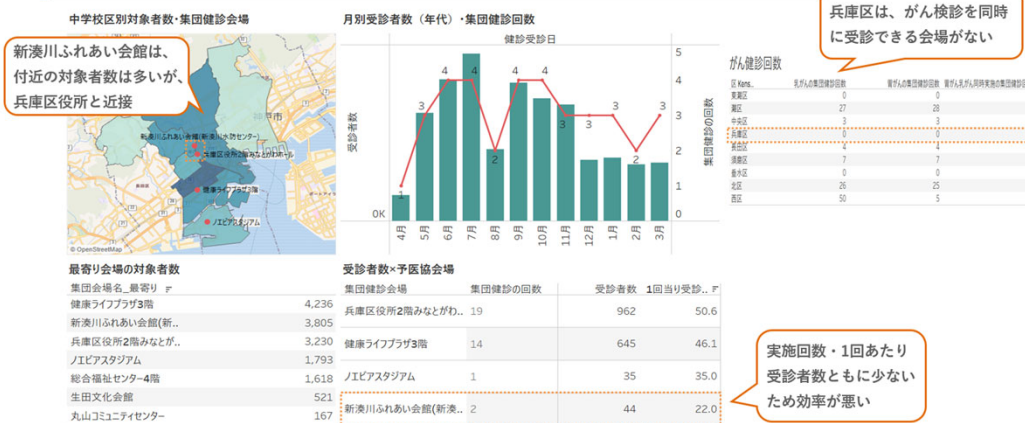
1. 健診会場・日程の見直し <例：中央区>



R7～改善

受診者数が多いが健診回数が少ない6～9月に、コミスタこうべで健診を追加

1. 健診会場・日程の見直し <例：兵庫区>



R7～改善

新湊川ふれあい会館での実施を兵庫区役所に集約し、がん検診同時実施も含め、拠点会場としての機能を向上

By identifying the factors contributing to regional differences and clarifying the targets of countermeasures, we can aim for more effective policy formulation.

Operational Reform Through Data Utilization

神戸スートシティ

- Several departments have already achieved significant results by implementing data-driven operational management.
- Going forward, it is necessary to expand these initiatives across the entire organization.

[Tax Department] Tax Collection Dashboard

Success achieved through dashboard initiatives and a review of delinquency management policies

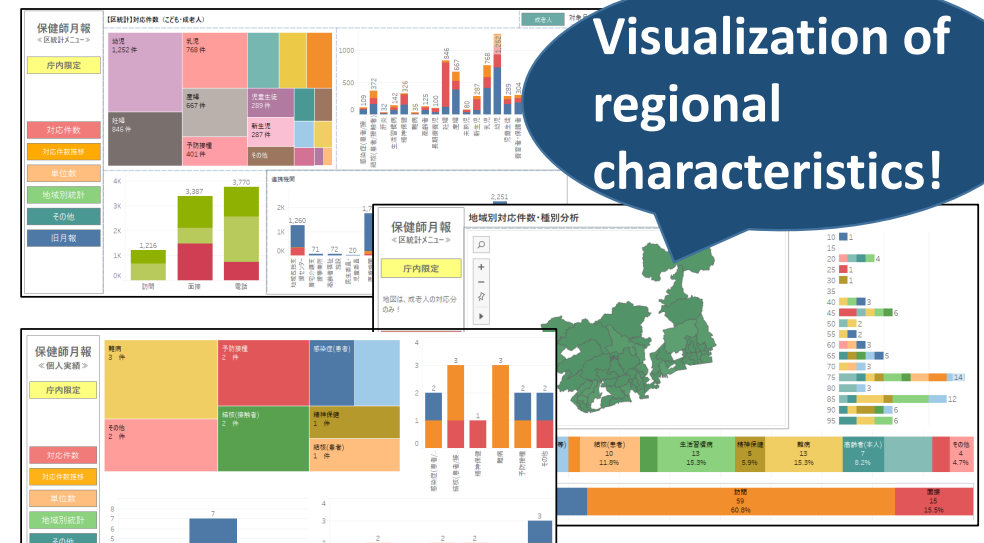
Achieved the highest ever collection rate!



[Health Bureau] Public Health Nurse Monthly Report Dashboard

Visualizing and sharing daily report data from public health nurses

Visualization of regional characteristics!



In the future, through system standardization, the regular accumulation of detailed data will enable the creation of various dashboards for operational management.

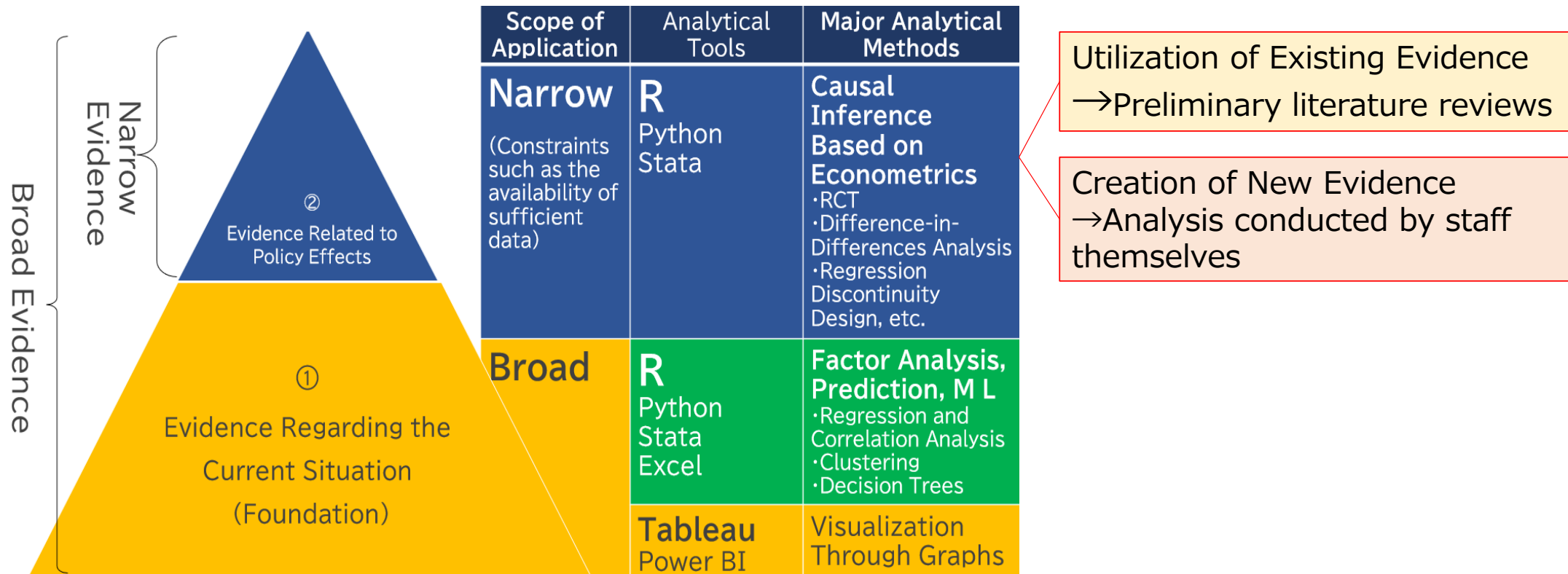
②EBPM Concerning Policy Effects

- Utilization of Existing Evidence
- Creation of New Evidence

Evidence Related to Policy Effects

神戸スタートシティ

○ In terms of evidence related to policy effects, we are undertaking two initiatives: "**utilization of existing evidence**" and "**creation of new evidence**."



Evidence Related to Policy Effects ①: Utilization of Existing Evidence 神戸スマートシティ

○ **Investigated 33 topics and 760 academic papers**, both domestic and international, using econometric causal inference methods and utilized them as evidence.

Also implemented in FY 2025

⑧ Determinants of the Incidence Rate of Adult Diseases

It was found that undergoing health checkups is linked to healthy behaviors such as exercise. This insight is being utilized in the Health Bureau's consideration of health checkup promotion measures.

⑪ Impact of Housing Structure on Health

It was found that the thermal insulation performance of housing contributes to health promotion. This finding is being used by the Housing Bureau to review the Kobe Living Support Subsidy.

⑯ Effectiveness of Fluoride in Preventing Tooth Decay

It was determined when fluoride mouth rinse is most effective for prevention and how often and for how many years fluoride should be applied topically to be effective. This information is being used to consider the full-scale implementation of fluoride use in elementary schools.

Confirmed the preventive effects of fluoride mouth rinse and topical application
→ Utilized to consider the expansion of fluoride use to all schools

Examples

Effectiveness of Fluoride in Preventing Tooth Decay

4 フッ化物洗口の予防効果（いつ実施すれば効果があるか）小学生

【調査時点が小学生の場合】

- 蝕歯の調査を小学生時に行ったもので、フッ化物洗口による蝕歯予防効果があるとした論文のうち、いつからフッ化物洗口を開始したのかを分析した3つの論文の結果を合成した。
- う蝕の罹患は複数年で進行するため、継続的に数年間予防に取り組むことが重要であることが指摘されていた。また、乳歯の時点でう蝕罹患しないことが、萌出する永久歯へのう蝕罹患を避けることが期待できるという指摘がなされていた。

論文番号	調査対象	①	②	③	④	⑤	⑥	説明
9	4歳、6歳時に（幼稚園、保育園）で洗口プログラムを実施							歯磨き量の多い4歳より多くの人数でフッ化物洗口プログラムを実施していた幼稚園、保育園出身の子どもは、それと実施していない子どもと比べて、6歳時に平均DMFT指数は少ない。
10	小学生から8年間フッ化物洗口プログラムを実施							小学校1年時から8年まで5年間フッ化物洗口（0.2%NaF溶液を用いた週1回洗）を実施することによるDMFT指数の削減効果は、約50%と推定される。
11	小学生～中学生までフッ化物洗口プログラムを実施							フッ化物洗口実施群（週1回0.2%NaF溶液による10分の洗）と非実施群との比較で、小学生～中学生までの調査期間に実施群は、乳歯の時点でう蝕罹患しなかったが、小学生～中学生までは実施群が認められた（2年後および4～6年後：p<0.001、3年後：p<0.027）

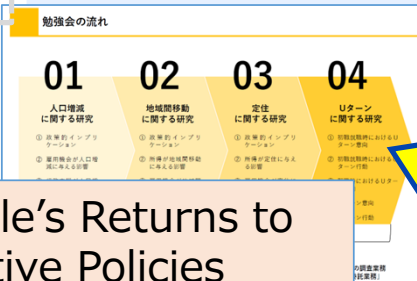
※●は調査時点を示している。

R5

R6

項目	論文数
①出生率に影響を与える要因	12
②最低賃金の経済効果に対する因果効果	12
③子どもの体力に影響を与える要因	58
④外国人の流入による影響	19
⑤大学生の負担軽減施策による政策効果	19
⑥結婚の決定要因（結婚支援策の効果）	51
⑦空家の発生要因	9
⑧成人病の発症率の決定要因	25
⑨開業率が高い地域の要因（スタートアップ関連）	30
⑩女性の就業率を上げるには（女性の就業要因）	22
⑪住宅の構造が健康に及ぼす影響	45
⑫ソーシャルキャピタルは社会経済にどのような影響を与えるか	25
⑬ソーシャルキャピタルがウェルビーイング（子育てなど）に及ぼす影響	26
⑭ウェルビーイングを構成する要因（決定要因）	26
⑮小・中学校教育に係る「学級規模」が学力に与える影響	24
⑯フッ化物の虫歯予防に対する効果	21
⑰投票環境が投票率に及ぼす影響	9
⑱子供の職業選択に親が及ぼす影響	21
⑲孤立・孤独による生活への影響	22
⑳メンタルヘルス不調・精神疾患になる要因	19
㉑夫婦出生力の決定要因	33
㉒海外（先進国）における出生率向上の要因	20
㉓不登校（小学生・中学生）の決定要因	20
㉔健康寿命の決定要因	31
㉕スタートアップ企業の成長の要因	21
㉖コンビニエンスストアの誘致による効果	19
㉗後期高齢者健診の効果	16
㉘文化財・伝統行事が住民や地域に与える効果	14
㉙オーラルフレイルの方への事後指導の効果	22
㉚若者のUターンの要因と有効な政策	17
㉛若年期の女性のやせと健康	18
㉜森林・緑化が及ぼすヒートアイランド現象の緩和効果	15
㉝市街地緑化の心理的な影響	19

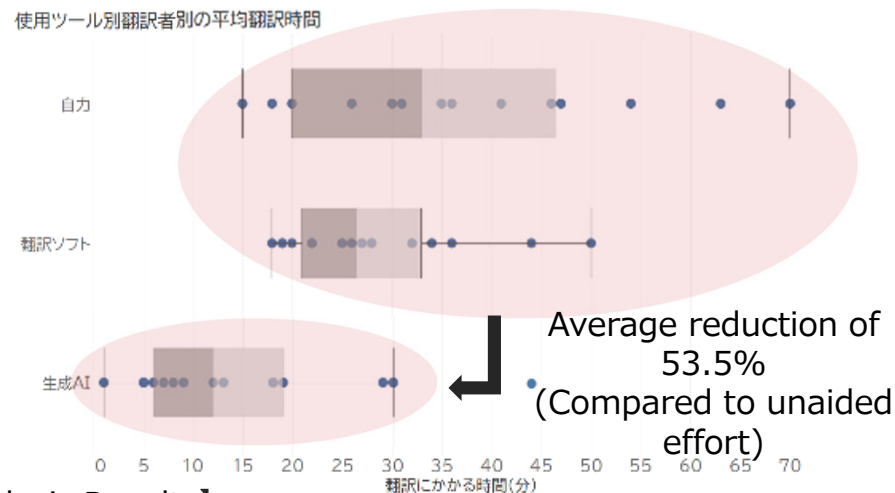
Factors in Young People's Returns to Rural Areas and Effective Policies



Also conducted study sessions utilizing preliminary literature reviews

- The purchase of paid translation support software was under consideration for translating public relations materials into English.
- As a result of conducting an RCT, it was found that the already introduced generative AI was superior to the translation support software in terms of time and quality. ⇒ Decided not to proceed with the introduction of specialized translation software.

【Time Required for Translation】

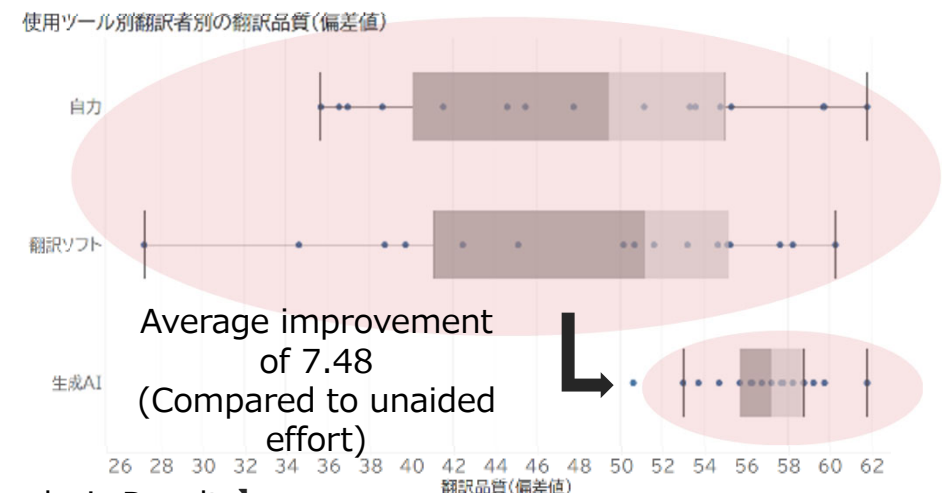


【Analysis Results】

Considering the translators and the pages translated, using generative AI **reduced the time required for translation by 67.2% compared to unaided effort.** (RCT)

※The generative AI used was Microsoft Copilot, which is available to all staff.
 ※The translation support software is typically used after training it with past translation results; however, in this experiment, no past data was used for training.

【Quality of Translation Results (Standard Score)】



【Analysis Results】

Considering the translators and the pages translated, using generative AI **improved the quality of translation results (standard score) by 8.72 compared to unaided effort.** (RTC)

※The standard score was calculated by having translation results graded (out of 100 points) by staff responsible for translation in the International Affairs Division, without them knowing which tools or translators were used.

It was found that using postpartum care significantly improves parenting emotions.
⇒ The analysis results were used in budget requests.

■ Overview of the Postpartum Care Program

Objective:

By promoting the reduction of parenting anxiety and the formation of parent-child attachment, the program aims to prevent postpartum depression and child abuse.

Content:

Mothers within one year postpartum can receive health management and lifestyle advice from midwives through overnight or outpatient visits.

■ Analysis Overview

Objective:

Although citizen feedback from surveys is positive, the necessary budget has increased with growth in users. The aim of the analysis is to objectively demonstrate the program's effectiveness to secure the necessary budget.

Method: Multiple Regression Analysis

Dependent Variable: Improvement in parenting emotions

Independent Variable: Use of postpartum care

Control Variables: Mother's age, emotions during pregnancy, EPDS score, presence of apathy, presence of spousal support for childcare, presence of newborn fussiness, whether twins or single child

■ Analysis Results

Mothers who utilized postpartum care showed an improvement in parenting emotions that was 0.165 points higher than for those who did not use the program.
(This was significant at the 10% level.)

Improvement in Parenting Emotions	
Use of Postpartum Care	0.165
Robust Standard Error	(0.0985)
90% Confidence Interval	[0.00245, 0.327]
N	923

*** p<0.001
** p<0.01
* p<0.05
. p<0.1

※Limited to mothers who experienced depressive mood
※Parenting Emotions: Parenting emotions of mothers were quantified at the 4-month and 9-month infant health checkups, assigning values as follows: "Very Enjoyable" = 4, "Enjoyable" = 3, "Neutral" = 2, "Struggling" = 1, "Greatly Struggling" = 0.
※Improvement in Parenting Emotions: Parenting Emotions at 9-Month Infant Checkup - Parenting Emotions at 4-Month Infant Checkup
※EPDS: The responses to a questionnaire were scored to calculate a result. With a maximum score of 30, a score of 9 or above indicates the possibility of postpartum depression (not a definitive diagnosis).

Mothers with high EPDS (depression index) scores, those with unfavorable parenting emotions, and older mothers had higher utilization rates.

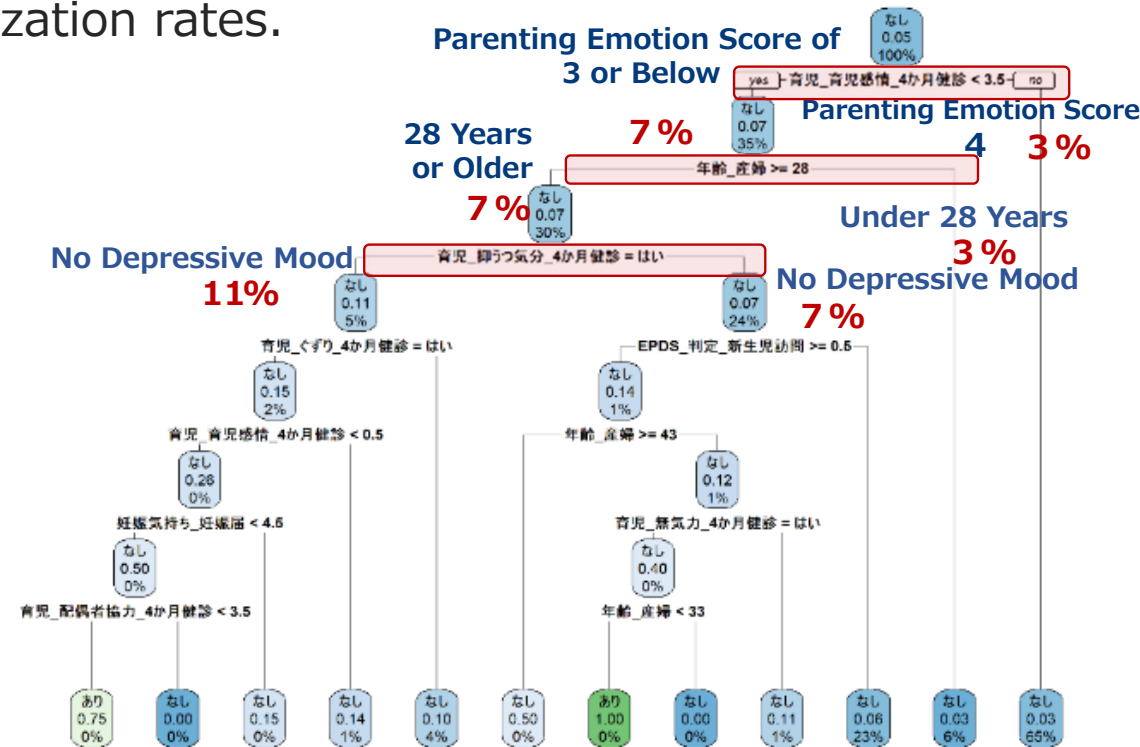
■ Analysis Overview

Method: Decision Tree Analysis

- Dependent Variable: Use of postpartum care
- Independent Variables: Mother's age
Emotions during pregnancy
EPDS
Presence of apathy
Presence of spousal support for childcare
Presence of newborn fussiness
Whether twins or single child

■ Analysis Results

- ① The utilization rate of postpartum care among mothers with a parenting emotion score of 3 or below was **more than twice** that of mothers with a parenting emotion score of 4.
- ② Among mothers with a parenting emotion score of 3 or below, the postpartum care utilization rate for mothers aged 28 or older was **more than twice** that of mothers under 28.
- ③ Among mothers with a parenting emotion score of 3 or below who were also aged 28 or older, the postpartum care utilization rate for those who experienced depressive mood was **more than 1.5 times** that of those who did not experience depressive mood.



Red: Percentage of Mothers Who Used Postpartum Care

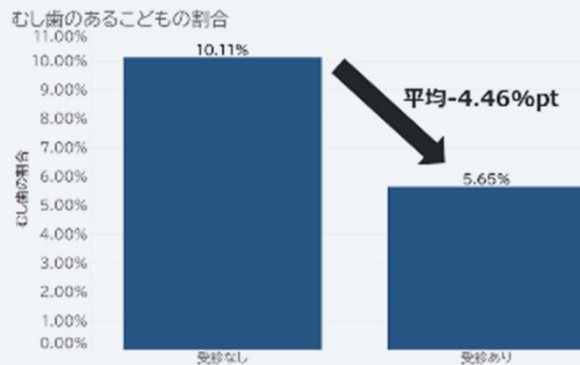
※Parenting Emotions: Parenting emotions of mothers at the 4-month and 9-month infant health checkups were quantified as follows: "Very Enjoyable" = 4, "Enjoyable" = 3, "Neutral" = 2, "Struggling" = 1, "Greatly Struggling" = 0.
 ※Improvement in Parenting Emotions: Parenting Emotions at 9-Month Infant Checkup - Parenting Emotions at 4-Month Infant Checkup
 ※EPDS: The responses to a questionnaire were scored to calculate a result. With a maximum score of 30, a score of 9 or above indicates the possibility of postpartum depression (not a definitive diagnosis).

Other Analysis Examples

Since FY 2023, we have undertaken 35 analyses, completing 21 of them.

Some projects have been revised based on the analysis results, achieving a certain measure of success.

■ Prenatal Dental Checkups and Children's Cavities (Multiple Regression Analysis)

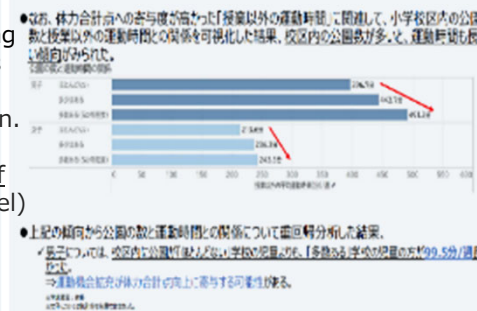


- Pregnant women can receive free dental checkups. These checkups provide knowledge on preventing the transmission of cavity-causing bacteria and refer cavity treatment that reduces such bacteria in pregnant women, thereby lowering the risk of transmission to their children.
- Children of mothers who received checkups had a 2.54 percentage point lower probability of developing cavities. (Significant at the 10% level)

⇒Consideration of strategies to improve checkup attendance rates

■ Number of Parks Within Elementary School Districts and Exercise Time Outside of Class (Multiple Regression Analysis)

分析1) ② 重目得分析 ～公園の数と授業以外の運動時間との関係～

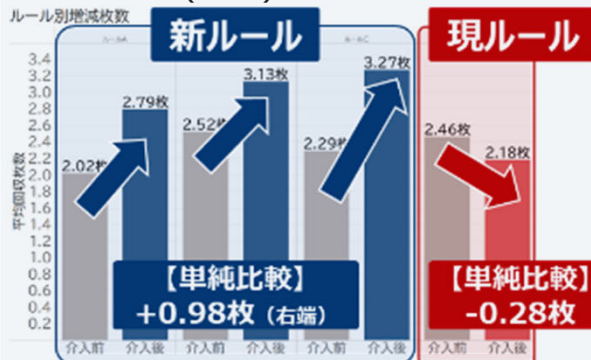


- For fifth-grade boys, students at schools with "many" parks in the district spent 99.5 more minutes exercising than those at schools with "almost none." (Significant at the 0.1% level)

- For fifth-grade girls, there was no statistically significant difference.

⇒Providing spaces for exercise is important for boys, but for girls, different strategies need to be considered.

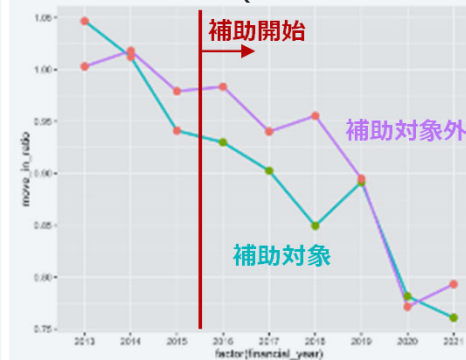
■ Review of Point Allocation Rules and the Number of Refill Packs Collected (RCT)



- When a refill pack is collected via the app, users receive points equivalent to 10 points = 1 yen. An investigation was conducted to determine whether changing the point allocation rules would increase the number of containers collected.
- Changing the upper limit on the number of collections eligible for points (per month, per person) resulted in an increase of 1.23 packs (per month, per person). (Significant at the 5% level)

⇒Based on the analysis results and a comprehensive evaluation, the program was discontinued.

■ A Subsidy System and the Number of New Resident Households (Difference-in-Differences Analysis)



- A subsidy is provided to households that meet certain criteria when they move into Kobe City, with the aim of increasing the number of new resident households.

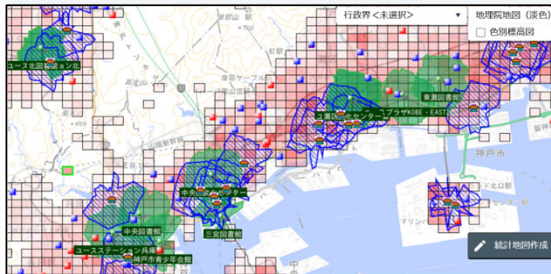
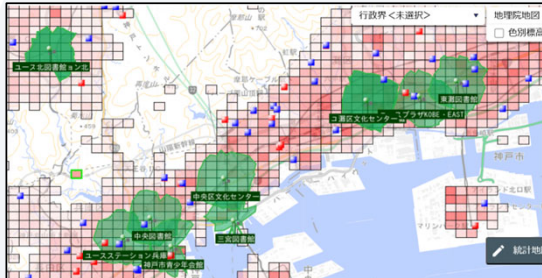
- Even with the introduction of the subsidy system, there was no statistically significant difference between the number of new resident households eligible for the subsidy and the number of similar households that were ineligible.

⇒Review of the system

Preparation of Usable Data

○ With official statistics such as the national census, we create dashboards to use for comparisons with other cities. Additionally, official statistics are utilized in data analyses like the ones listed below.

■ Selection of Areas for Establishing Community Study Rooms (Child and Family Bureau)

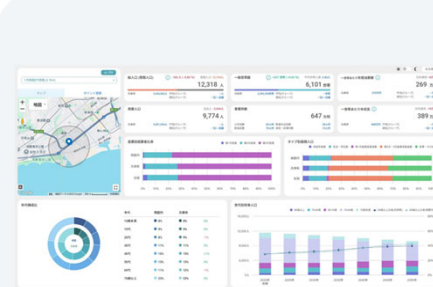


- When setting up community study rooms, it was necessary to consider which areas to select for the establishments.
- The goal was to establish community study rooms in locations easily accessible to middle and high school students, considering existing study spaces like libraries and youth stations, as well as the locations of schools and the residential areas of middle and high school students.

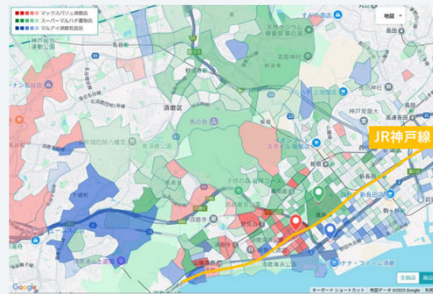
- Utilized data on existing study spaces, school locations, and the distribution of the young population (from the national census) to select sites for the establishment of community study rooms.
- By visualizing areas with existing study spaces and regions with a high concentration of middle and high school students but lacking study spaces, a comprehensive investigation was conducted to establish study rooms in the most desirable locations possible.

※ Note: Utilized the Ministry of Internal Affairs and Communications Statistics Bureau's Geographic Information System, "j-STAT MAP"

■ Analysis Related to Live Events (Transportation Bureau)



- The site of a former city bus depot was leased to a food supermarket operator. As the lease agreement approached expiration, it became necessary to consider new utilization methods for the site to improve both urban development and the financial balance of the bus operations.
- Utilized KLA's human flow data analysis to understand area characteristics, as well as customer information for the existing supermarket and its relationship with competing stores.



- Using census data within KLA, we identified the population dynamics and number of business establishments within a 700-meter radius of the target area. It was revealed that the daytime population exceeds the nighttime population, and the area has a high concentration of manufacturing industries.
- An analysis of competitors and visitors' areas of residence indicated that the existing supermarket is a key facility for local residents, with high demand for a drugstore as well.
- It was decided to redevelop the site into a complex that includes not just a supermarket, but also a drugstore and dining establishments.

※ KLA (KDDI Location Analyzer): Expanded estimation of GPS data based on census data

Dashboards allowing the exploration of nationwide data are now available!

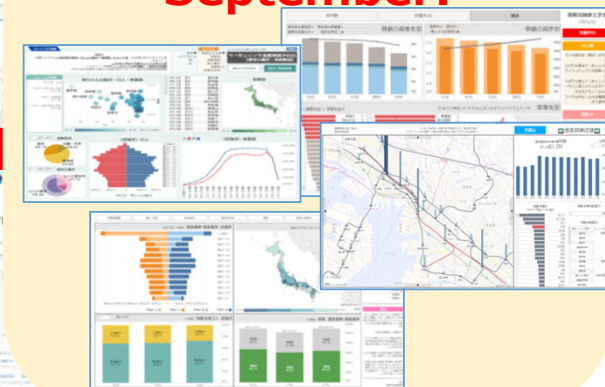
Kobe City Website



Click on "Kobe Data Lab."



Additional releases at the end of September!



Access Here!



Nationwide Dashboards Published in Kobe Data Lab

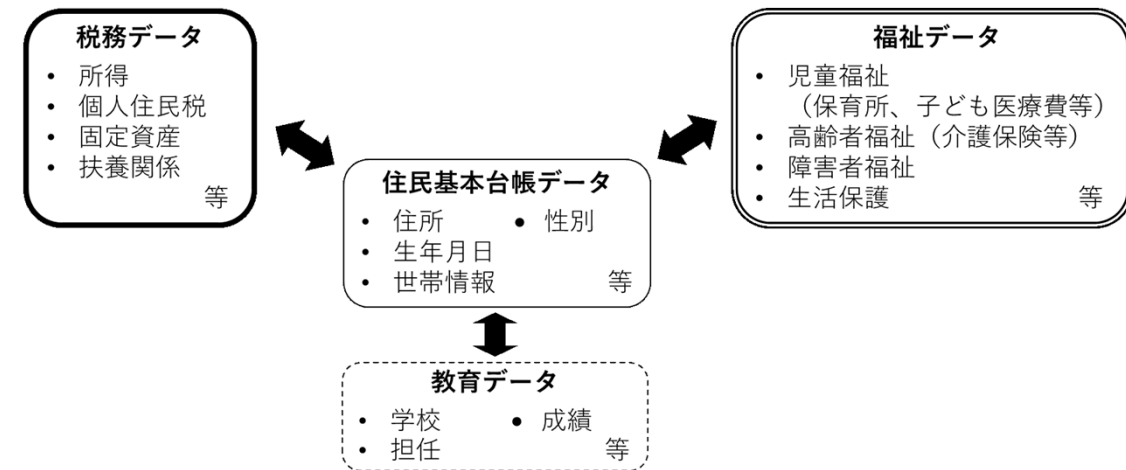
神戸スタートシティ

1st Batch	Basic Complete Tabulation of Population Census (Municipalities / Small Areas)	Population by age group and data on household situations
	Commuting Analysis of Population Census	Data on where people are commuting to and from for work and school
2nd Batch	Labour Force Analysis of Population Census (Small Areas)	Number of employed persons by industry and occupation
	Data on Population and Employment Status in Hyogo Prefecture from Population Census	Population of Hyogo Prefecture, as well as data on its employed persons and housing situation
	Data on Mobility of Population (Cities with Population of 500,000 or More) from Population Census	Mobility of population through comparison of data on place of residence between now and 5 years ago
3rd Batch	Population Projection of Japan by Area (Prefectures and Municipalities)	Population projections up to 2050 by area
	Report on Internal Migration in Japan (Prefectures and Major Cities)	Migration patterns by age group and destination
4th Batch	Housing and Land Survey (Prefectures and Ordinance-Designated Cities)	Number of dwellings, percentage of vacant dwellings, and distribution of monthly rent for leased housings
	Employment Status Survey (Prefectures and Ordinance-Designated Cities)	Employment rate, childcare leave utilization rate, and percentage of dual-income households
	Number of Passengers Getting On and Off by Railway Station	Number of passengers getting on and off at each station shown on a map
	Data on Marital Status from Population Census and Labour Force Survey (Prefectures and Municipalities)	Percentage of unmarried persons, employment rate, and unemployment rate

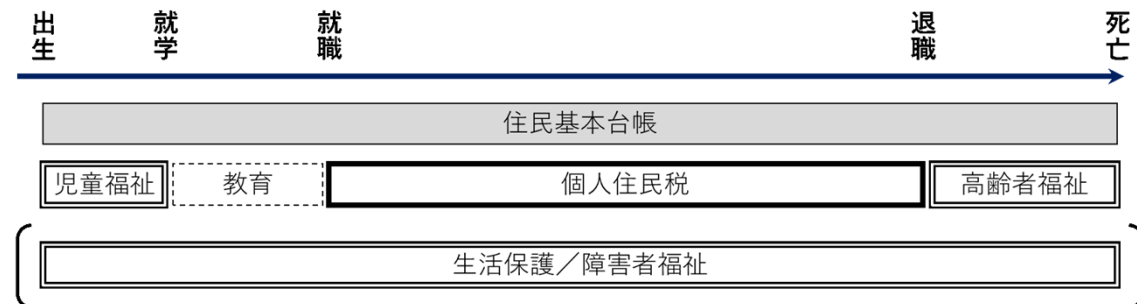
Please try it out yourself!

- Because local government services are closely tied to residents' lives and cover a wide range of areas, **municipalities hold big data** related to taxation, welfare, education, and more, centered around the resident registration system.
- In addition to core systems, there are a wide variety of other systems that hold a large amount of data.
- However, until now, this data has not been utilized beyond its use in operations.

⇒ Instead of viewing systems solely as **systems** from the perspective of an IT department, **consider them as treasure troves of data that could be utilized for EBPM** (Evidence-Based Policy Making) **in policy departments.**



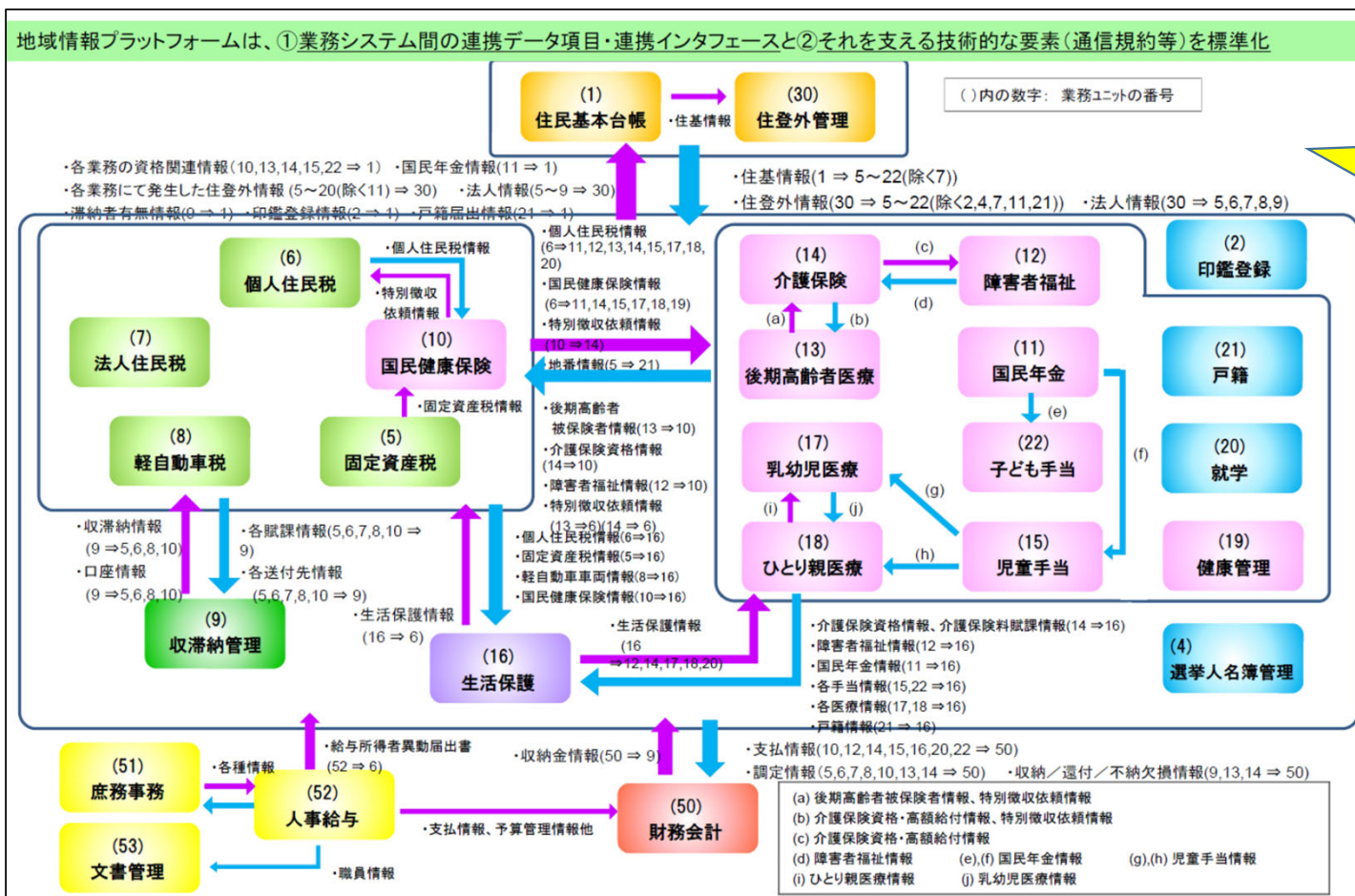
【個人のライフイベントとの対比】



Core System Data Stored within Internal Data

神戸スマートシティ

- 84 datasets sent from core systems to an intermediary server managed by the government, along with proprietary datasets such as resident registration and tax data, are stored in the internal data integration platform.
- Among these, the Resident Registration Data Mart, Census Data Mart, and Statistics Data Mart are shared.



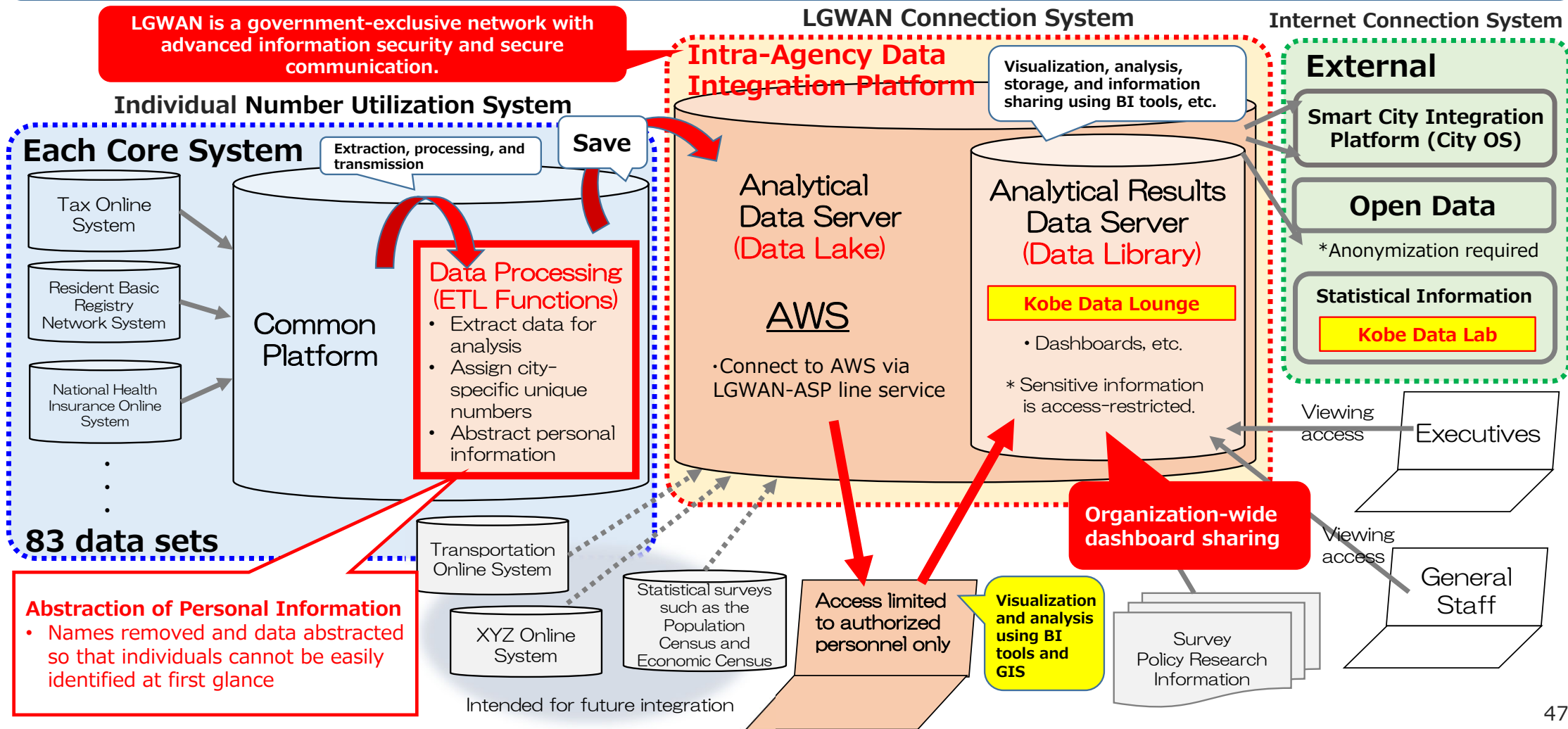
A portion of this data was extracted and stored in the internal data integration platform.

○ Organized information from approximately 700 information system ledgers to **ascertain and compile the data held by each bureau, presenting it in an easy-to-understand format for listing and sharing.**

情報システム台帳の一例

EM-NET	災害援護資金貸付償還事務システム	耐震診断・改修等補助台帳システム
近畿情報ネット	介護認定システム	住宅貸付システム
全国瞬時警報システム(J-ALERT)	後期高齢者医療(広域連合システム)	建築情報管理システム
兵庫県フェニックス防災システム	後期高齢者医療(神戸市システム)	建築・設備積算システム
防災行政無線(同報系)システム	介護認定審査会支援	AIS(船舶自動識別装置)
文書管理・電子決裁システム	介護保険認定管理	港湾EDIシステム(みなとシステム)
戸籍総合システム	総合事業管理システム	ハーバーハイウェイ保全情報管理システム
住民基本台帳ネットワークシステム	墓園管理システム	搬入車両重量計量システム(苅藻島クリーンセンター)
パイオネットシステム	生活衛生関係業務システム	下水道事業財務会計システム
例規データベース	医務薬務台帳管理システム	水防情報システム(FISKO)
経理契約システム	ものづくり工場使用料等収納管理専用システム	公園施設管理台帳システム
地方税電子申告システム	自動検針装置(BMS)	土木積算システム
固定資産税評価図管理システム	農業共済集中化運営システム	下水道使用料調定・収納システム
家屋評価計算システム	都市計画情報案内システムゆーまっぷ	下水道予算決算システム
下水道台帳管理システム	放置自転車等管理システム	給水設計台帳管理システム
下水道施設・設備情報システム	道路冠水モニタリングカメラシステム	道路管理システム
河川モニタリングシステム	制御専用システム	管路情報管理(マッピング)システム
道路冠水モニタリングカメラシステム	営業オンラインシステム	財務会計システム(交通局)
バスICシステム	お客様サポートシステム	例規システム(交通局)
運行情報システム	財務会計システム(水道局)	駅務ICシステム

○ "Accumulate" data and process it into dashboards for "sharing" ⇒ Enables even staff unfamiliar with data handling to utilize it.



- Official statistics, such as the national census, continue to maintain their quality even amid the growing use of alternative data (business data). They are useful for policy formulation, including analyzing changes over time and comparing different cities.
- On the other hand, business data has distinct strengths not found in existing official statistics such as:
 - ✓ Administrative operational data (e.g., tax data) offers accuracy, comprehensiveness, and large sample sizes.
 - ✓ Real-time data (e.g., smartphone GPS data) provides immediacy and speed.
- However, since business data is ultimately a byproduct of business,
 - ✓ It may lack items that are not necessary for business but are important for analysis (e.g., educational background).
 - ✓ It is necessary to understand its "quirks" and perform data cleaning and processing to use it effectively for analysis.
- Therefore, it is important to understand the strengths and weaknesses of both types of data and to combine them effectively.
 - ⇒ Kobe City also utilizes both types of data.

Development of Personnel Skilled in Data Utilization

Except for advanced analyses, the approach is to **undertake analysis internally, with staff conducting the analysis themselves.**

If one has not personally engaged in hands-on analysis, it is difficult to interpret the results, including understanding their limitations.

The following decisions require domain knowledge, and it is most efficient for staff with that knowledge to conduct the analysis themselves.

- ✓ The assumptions for whether statistical causal inference holds (e.g., in RDD, whether there are no changes other than the treatment before and after the intervention).
- ✓ Interpretation of analysis results (e.g., why did the number of passengers at a particular station suddenly increase this year?)
- ✓ The presence or absence of policy implications in analysis results (e.g., even if it's determined that a large playground has an effect (or no effect) on improving children's physical fitness, the results cannot be utilized if there is no room to change the playground area due to legal or budgetary constraints)

○There has been active participation in training, particularly among young staff, advancing the development of personnel skilled in data utilization across various bureaus and departments.

※The number of staff per bureau/department was counted based on current workplace.

○Data Expert: **22 staff passed**

○R User: **93 staff**

Staff who participated in R training

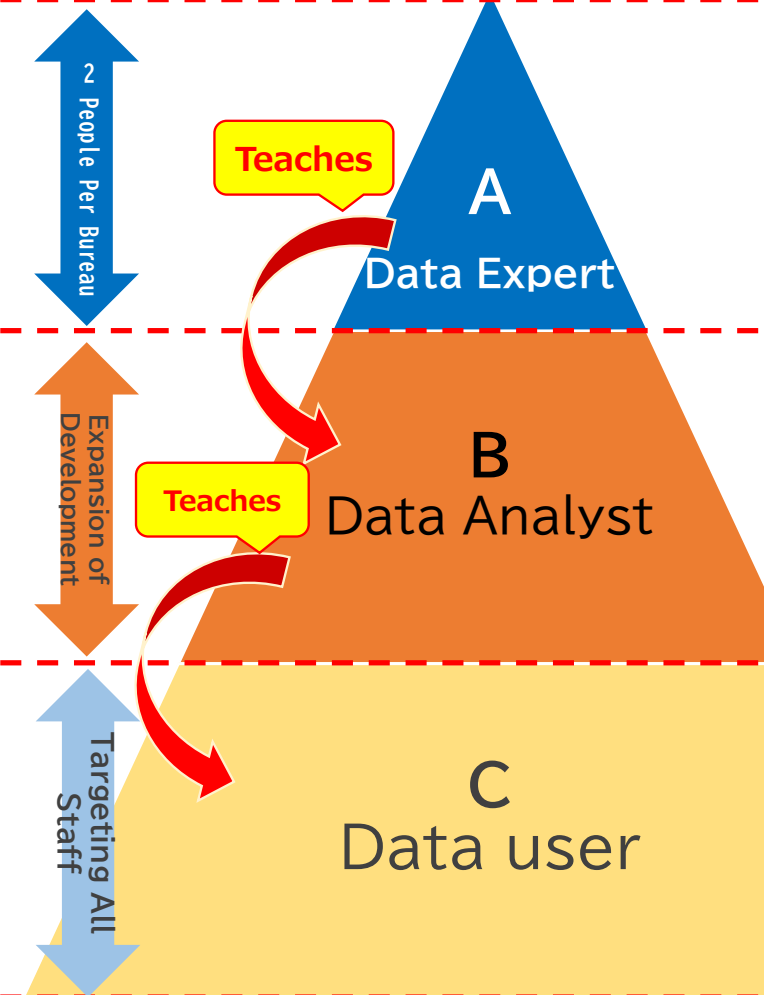
危機管理局	-人	福祉局	8人	建設局	7人	水道局	2人
企画調整局	9人	健康局	4人	都市局	3人	交通局	3人
地域協働局	5人	こども家庭局	4人	建築住宅局	3人	教育委員会事務局	4人
行財政局	14人	環境局	2人	港湾局	1人	区役所	10人
文化スポーツ局	2人	経済観光局	5人	消防局	5人	その他	-人

○Data Analyst: approx. **530 staff**

Staff granted dashboard creation authority via training, etc.

危機管理局	8人	福祉局	50人	建設局	15人	水道局	34人
企画調整局	100人	健康局	27人	都市局	28人	交通局	5人
地域協働局	16人	こども家庭局	13人	建築住宅局	11人	教育委員会事務局	8人
行財政局	75人	環境局	9人	港湾局	8人	区役所	74人
文化スポーツ局	6人	経済観光局	25人	消防局	9人	その他	7人

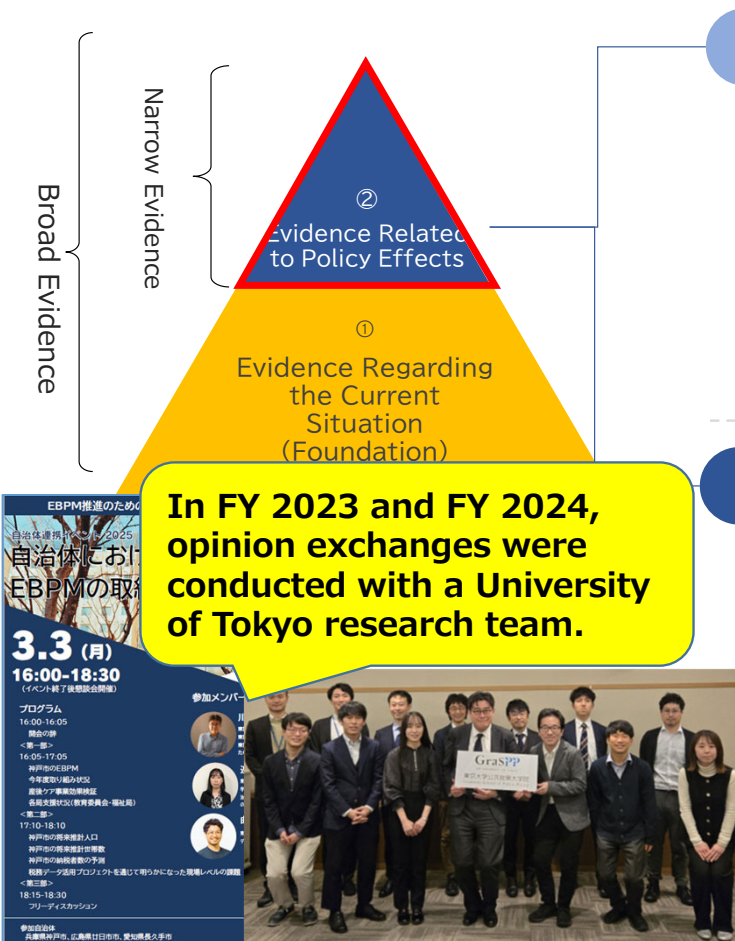
○Data User Training Participants: approx. **650 staff**



Data Analysis Skill Acquisition Training

神戸スートシティ

- The Data Analysis Skill Acquisition Training includes an "Introduction" and a "Practical Application" module, and so far, about 80 staff members within the organization have participated.
- In FY 2024, the "Introduction" module had 15 participants from within the organization, and the training was also opened to external personnel, with 15 participants from Hatsukaichi City and the MIC.



Introduction module

The objective is to acquire methods for determining causal effects of policy based on data. The focus is on acquiring practical data analysis skills, so conceptual explanations are minimized as much as possible.

Curriculum

関心を持つ	知る	学ぶ	考える	行動する
1日目前半 (1時間) EBPMに関心を持つ ・なぜデータ分析は重要なのか ・分析に不可欠なデータの活用	1日目後半 (1時間) データ分析の基礎を学ぶ ・Rの基礎 2日目前半 (1時間) データ分析の基礎を学ぶ ・統計的有意性と決定係数、相関係数、回帰係数 など	2日目後半 (1時間) データ分析手法について学ぶ ・因果推論の基礎 3日目前半 (1時間) データ分析手法について学ぶ ・因果推論の応用 3日目後半 (1時間) データ分析手法について学ぶ ・因果推論の応用 4日目前半 (1時間) 論文の読み方について学ぶ	4日目後半 (1時間) 因果推論の応用の実践について考える	5日目 (2時間) 知識・スキルを適用して課題に取り組み

List of Participants

Year	Number of participants	
	Kobe City	Hatsukaichi City
2022	23	
2023	18	
2024	15	
2025	33	

In FY 2025, due to a large number of applicants, registration was closed before the deadline.

Practical Application

After lectures aimed at improving analytical skills using R, participants conduct analyses using real data. In the analyses, participants are divided into teams to analyze data and forecast next year's birth rate and annual tax amount.

Curriculum

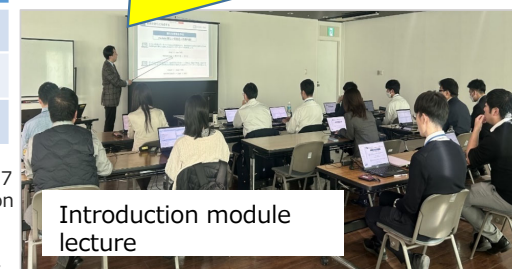
	内容
第1回	線形回帰、ロジスティック回帰による予測 -連続変数の予測と評価 -カテゴリ変数の予測と評価
第2回	決定木による予測 -連続変数の予測と評価 -カテゴリ変数の予測と評価
第3回	ランダムフォレスト、チューニングによる予測精度向上
第4回	課題に対する取り組み状況の報告 情報交換・講師からのアドバイス
第5回	課題に対する取り組みについて、分析結果と政策提案内容の発表

List of Participants

Year	Participants
2023	18
2024	10
2025	19

Of the participants in the Practical Application module, 7 have participated in an opinion exchange meeting with the University of Tokyo and presented their own analyses.

In FY 2024, the training was conducted with external instructors.



○ Previously, only basic statistical training (beginner level) had been offered, but in FY 2023, new intermediate-level statistical training was introduced to help participants acquire statistical knowledge.

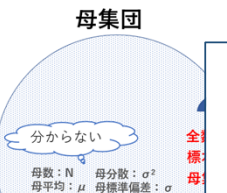
Possible to acquire practical statistical knowledge in just two training sessions!

Number of Participants
 FY 2023: 14 staff
 FY 2024: 58 staff
 FY 2025: 41 staff

統計研修（中級）で学ぶこと

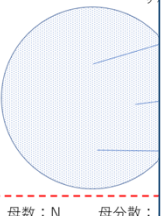
- 分散と標準偏差
- 正規分布
- 検定

母集団と標本

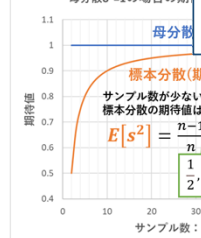
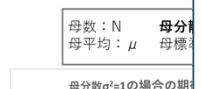


標本の測定量の期待値

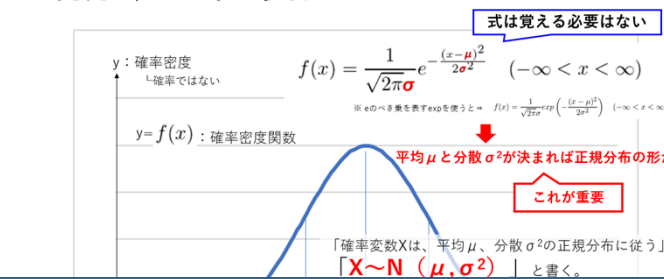
母集団



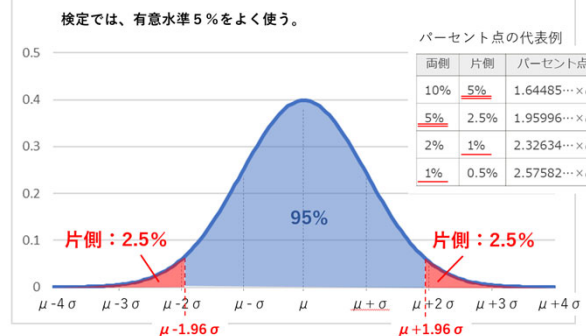
母分散の不



正規分布を式で表すと...



正規分布の95%信頼性区間



A群とB群のテストの
⇒対応のない2標本

- ① $\mu_A = \mu_B$ という
⇒ 言いたいのは
- ② 有意水準 α を両側
- ③ $\mu_A = \mu_B$ のとき、
⇒ 母分散が分からず不
- ④ $-1 < p < \text{有意水準} (\alpha)$

F 検定

F検定とは、
2つの母集団の母分散が等しいと言

F = 不偏分散1 / 不偏分散2
 F分布に従う
 分子の自由度
 分母の自由度
 F値は、不偏分散1 (分子) > として計算

単回帰分析

予測モデル構築手法
⇒機械学習の一種

y: 目的変数 (結果)

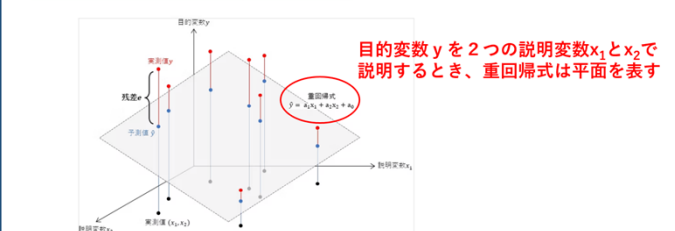
予測したい側の観測値	
y_1	x_1
y_2	x_2
y_3	x_3
\vdots	\vdots
y_i	x_i

x_i : i番目の観測値

重回帰分析

単回帰分析 $\hat{y} = ax + b$

重回帰分析 $\hat{y} = ax_1 + bx_2 + \dots + c$ ※ a や b を偏回帰係数という



目的変数 y を2つの説明変数 x_1 と x_2 で説明するとき、重回帰式は平面を表す

○ Conducted numerous training sessions to accelerate the development of personnel skilled in data utilization. **A cumulative total of approximately 1,200 staff members participated across 20 different types of training sessions.**

	内容	時期	対象者・受講者	人数	備考
Tableau	A Tableauセイバー	前期・後期	政策課など	6人	前期：5人、後期：1人
	政策会議（前期）対応	5月～	各局政策担当	46人	全3回（2h×3回）
	政策会議（後期）対応	11月	各局政策担当	46人	全2回（3h×2回）
	DX推進リーダー育成研修	10月～	庁内公募	60人	全1回（3h×1回）※育成研修の1コマ
	B 地域の課題調査	9月	C受講者のうち希望者 （余裕があれば庁内で追加募集）	27人	合同で実施
	各区	9月			
	庁内インターンの受入	10月	庁内希望者	2人	2日間ハンズオン研修（OJT）ほか
	各局室区別ハンズオン研修	1月～	各局から依頼	約140人	現在7局（福祉・健康・都市・水道・経済観光・教育・行財政）から依頼
	地域の課題調査	8月	庁内公募	約20人	
	C 各区	7月～	各区希望者	約210人	各区・支所で実施（計15回）
R	課長等研修	1月	庁内公募 ※オンライン参加含む	79人	CDO補佐官が講師、全2回（3h×2回）
	階層別研修（新採、昇任時等）	4月～	該当者全員	約400人	新採（4月、10月の2回）等
GIS	B データ分析（実践編）	7月～	庁内公募	10人	全5回
	B データ分析（導入編）	11月～	庁内公募	15人	外部講師を公募、全5回、他自治体等受入
KDDI	B 庁内GIS研修（分析編）	8月	庁内公募	40人	
統計	B KLA勉強会（初心者向け）	6月	庁内公募	32人	
論文調査	B 統計研修（中級）	2月	庁内公募	58人	
論文調査	C 先行論文を活用したEBPM研修	9月～	庁内公募	オンライン	事業者で実施（委託、9テーマ）
KTL	- 自主的勉強会	随時	庁内公募	10～20人	Tableau、Rなどのテーマで実施
オンライン	- Udemy（Tableau、R等の自習）	随時	庁内公募	オンライン	10～20人にライセンス貸出、人数制限あり

FY 2024 KTL (Voluntary Study Group) and Online Learning

神戸スマートシティ

- Created a chat room for information exchange within the organization regarding the use of Tableau and R.
- During and after training, many members participate to exchange opinions, share information, and resolve technical questions.

FY 2024 KTL (Voluntary Study Group)

● **Tableau Mokumoku-kai (Held After Hands-On Training)** *Hosted by the Health Bureau
1st Session: Tuesday, July 9, 2024
2nd Session: Thursday, January 30, 2025

● **R Data Analysis Case-Sharing Meeting**
1st Session: Wednesday, November 6, 2024
2nd Session: Monday, March 10, 2025



Organizational users can ask and answer questions among themselves, improving overall skill levels and enabling prompt support.

● Chat room



Tableau Beginner and Intermediate Courses

 <p>Tableau Public 101 —とにかくタブロー / Tableauを使ってみたいと思ったらみるコース— タブロー / Tableau をはじめるには3つの大きな障壁があります。お金がかかる。時間がかかる。努力がかかる。これらの障壁を徹底的に、海外ドラマ2本分の時間でまよりました。タブローの学習を始めるか? このコースで判断しちゃいませんか? マスカワ シンケル 4.4 ★★★★★ (1,477) 合計1.5時間・レクチャーの数: 11・初級</p>	 <p>はじめてのTableauデータ分析入門・初級〜2時間でTableau Desktop Specialist資格対策〜 事前知識なしの方からTableau利用3か月以内の方が知っておきたい知識内容を中心とした約2時間で効率よく学べる講座です。Tableau資格の登竜門「Tableau Desktop Specialist」の出題頻度が高い内容にフォーカス。 So Fujimoto 3.9 ★★★★★ (1,093) 合計2時間・レクチャーの数: 25・初級</p>
 <p>データサイエンティストを目指す人のための『ゼロからの Tableau 入門』 ニーズが高まるBIツール Tableau を前提知識ゼロから学びます (レベル: 初級〜中級)。データサイエンティストに求められる「データビジュアライズ」をTableauで実現するための講座。 木田 和典 4.3 ★★★★★ (5,064) 合計11.5時間・レクチャーの数: 118・すべてのレベル</p>	 <p>試験対策をしながら基礎スキルを身につける! ゼロからのTableau Desktop Specialist試験対策講座 製品の基礎知識 (連結と不連続、ディメンションと指標等) から、関数 (数値・文字列・日付・置換・集約・集計)、フィルタ、パラメータ、セット、ダッシュボードアクションまでを体系的に学習 木田 和典 4.4 ★★★★★ (293) 合計23時間・レクチャーの数: 210・すべてのレベル</p>
 <p>新人研修に最適! 体系だって学んだことがない社員のためのデータ分析基礎 PPDACサイクルを身に付け、効果的に効率的なデータ分析のスキルを身につける 木田 和典 4.3 ★★★★★ (277) 合計5時間・レクチャーの数: 58・初級</p>	 <p>Tableauを使いこなしたい分析者のための『ゼロからの Tableau Prep 入門』 分析者がより「筋のよい」データ分析フロー構築のための支援ツール Tableau Prep の入門コースです。 木田 和典 4.2 ★★★★★ (1,564) 合計5時間・レクチャーの数: 51・すべてのレベル</p>
 <p>今すぐ始めよう! (*Tableauに関する6個のレクチャー) ● デモ・集計 Tableau ● デモ・ピボット Tableau ● デモ・結合 Tableau ● デモ・折れ線グラフ Tableau ● デモ・棒グラフ Tableau ● デモ・組み合わせ Tableau</p>	 <p>【中級】ビジネス分析を習得! ~Tableau実践トレーニング Tableauを実際のビジネスに活用したい! でも学習方法が分からない。そんなユーザー必見。本コースはよく使うデータ分析手法のハンズオントレーニングです。Tableau DesktopおよびServer(Online)に対応しています。 永堀 宗彦 4.4 ★★★★★ (395) 合計4.5時間・レクチャーの数: 30・中級</p>
 <p>現役データアナリストがハンズオンで徹底解説「データ活用初学者のためのTableau講座〜入門編〜」 現役データアナリストが運営する「BIツール研究所」のメンバーが現場で使えるノウハウを解説します。初學者でも人気のデータ分析ツールTableauを使い始めるようになります。ハンズオン形式で一緒にTableauのスキルを習得してみましょう! ワイルド Maekawa Sho, 直人 朝根 4.0 ★★★★★ (534) 合計2.5時間・レクチャーの数: 47・すべてのレベル</p>	 <p>【初級〜中級者向け】Tableauスタートダッシュ (基本操作マスター) Tableauの概要理解 (データ接続からレポート作成、ダッシュボード作成までの基本を網羅) Ryusuke Shimizu 4.2 ★★★★★ (131) 合計16時間・レクチャーの数: 67・すべてのレベル</p>

For those interested, we provide a temporary Udemy (online) account to facilitate further skill development.

Internal Certification Systems

神戸スートシティ

- Established new certification systems for staff who have acquired the skills necessary for data analysis (Tableau Leader and R Leader).

Certified staff
fall under
category A.

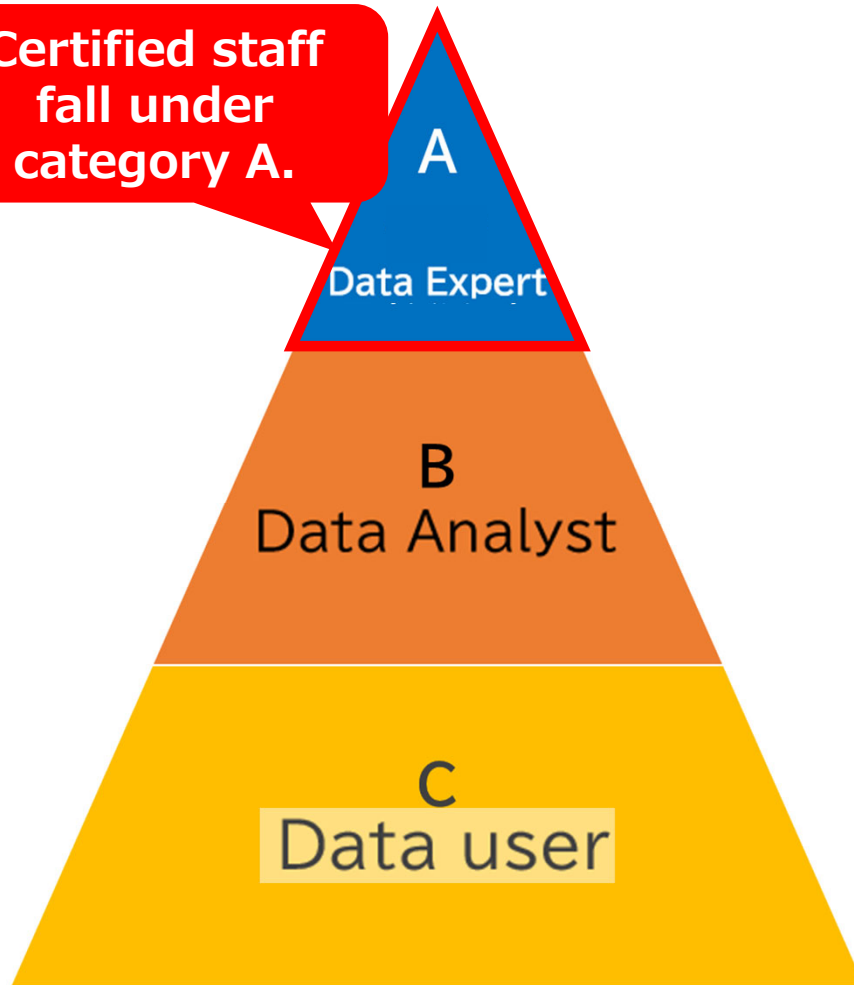


Tableau Leader

【Overview】

This is **an internal certification** for staff who have acquired practical skills in using Tableau.

【Certification Process】

Complete all of the following tasks within **four months** from the start.

- Skill Development: Acquire essential skills for creating dashboards
- Practical Experience: Create dashboards using your department's data
- Presentation: Present the dashboard content to the department head and relevant personnel in your department.

Three staff
members
currently
seeking
certification

R Leader

【Overview】

This is **an internal certification** for staff who have acquired practical skills in using R.

【Certification Process】

Complete all of the following tasks within **five months** from the start.

- Multiple-Choice Exam: Acquire basic statistical knowledge and coding skills.
- Practical Experience: Conduct analysis using your department's data and prepare a report.
- Presentation: Present the analysis content to the department head and relevant personnel in your department.

Approximately
10 staff
members
planning to seek
certification

ご清聴ありがとうございました

話して、試して、つながる。行政DXのヒントが見つかる体験型イベント

Smart City Summit in Kobe



行政DXの“今”を体感できる多彩なプログラムを企画中！

2026
1.22 木 13:30-17:00

最新情報はこちら



参加無料

会場
神戸ポートオアシス 5階会議室
神戸市中央区新港町5番2号

対象
全国の自治体職員・国家公務員の方々
関連分野に関心のある民間企業の皆様

開催概要
生成AI・データ活用・データ連携基盤をテーマに、
クロストーク・体験型ハンズオン・神戸市職員との相談会など実施予定

スマートシティサミット in 神戸 主催 神戸市
お問合せ先 神戸市企画調整局調整課 smartcity@city.kobe.lg.jp



神戸スマートシティのその他の取組は
スマートこうべで！

神戸市企画調整局調整課スマートシティ担当
TEL : 078-322-6462
Email : smartcity@city.kobe.lg.jp

Contact us!