#### 

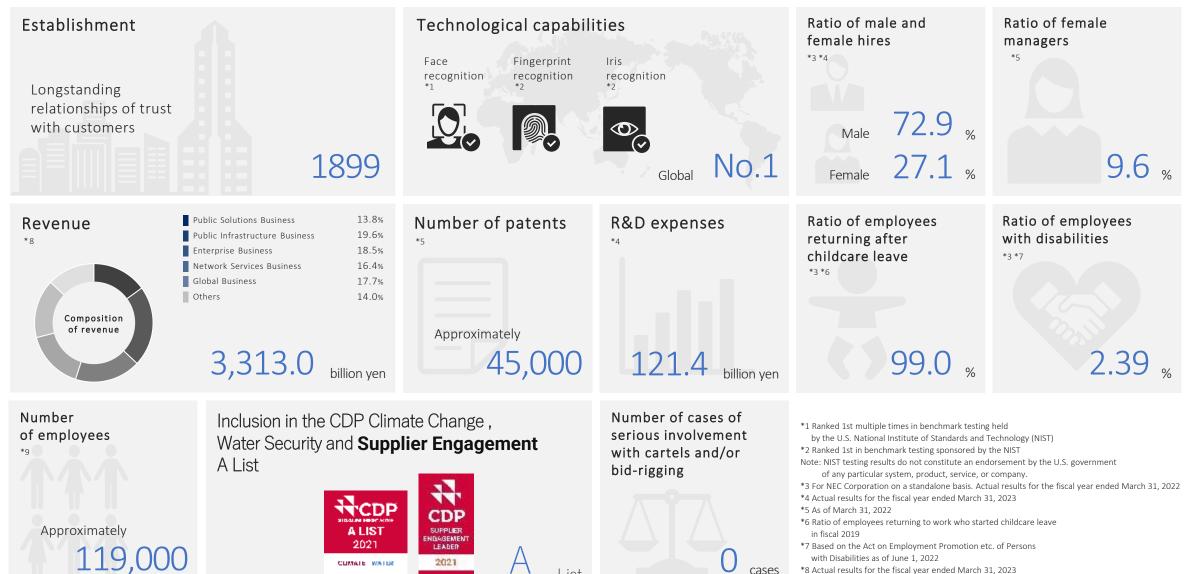
# Introduction on NEC Healthcare solution

Healthcare and Life Science Division Global Innovation Business Unit NEC Corporation

2

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### NEC at a Glance



List

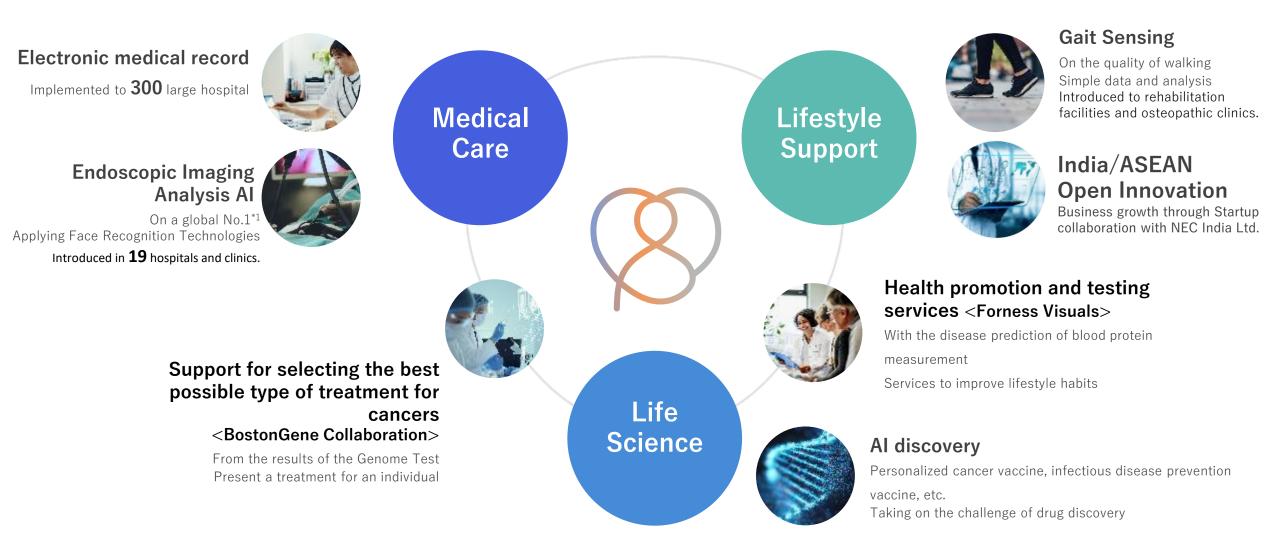
cases

\*8 Actual results for the fiscal year ended March 31, 2023

\*9 As of March 31, 2023

NEC **Orchestrating** a brighter world

### Life science business of NEC



\*1 Top Face Recognition Accuracy Assessment by the National Engineering Standards Research Laboratories (NIST) since 2009

#### **NEC Corporation India**

NEC India is a 100% Subsidiary of NEC Corporation, Japan and has been present in India for more than 15 years providing Technology Solutions to Government & Enterprise both. NECI is a CMMI Level 5 Company and has been helping deliver globally for various NEC Global Customers. We have a myriad of smart healthcare solutions deployed globally that improve the quality of patient care through enhanced patient handling and enable healthcare providers to deliver the right medical treatment faster.



- Global Branch Offices: Tokyo, Dallas, Singapore, Melbourne.
- India Offices: Noida, Mumbai, Bangalore, Chennai, Pune, Hyderabad, Ahmedabad, Hubli, Saharanpur, Trivandrum, Surat

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**Bus Rapid Transit** Preventive health & Shared value Platform 100% Container Visualized Ahmedabad, Surat, Hubli **DMIC Logistic Visualization** Bihar state **10% OPEX Reduction Citv Efficiencv** AIIMS Safe City Delhi & Surat City Police Smart city:-27% Crime Reduction KDMC, Hubli, Gurugram, Thiruvanthapuram

#### **KEY DOMAINS** Public Safety & Smart City Healthcare | Transportation | Unified collaboration logistics | Telecom |

Manufacturing

**KEY TECHNOLOGIES** ERP | AI & Big data Web & mobile | Automation IoT | DC & Cloud | Biometrics

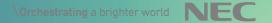




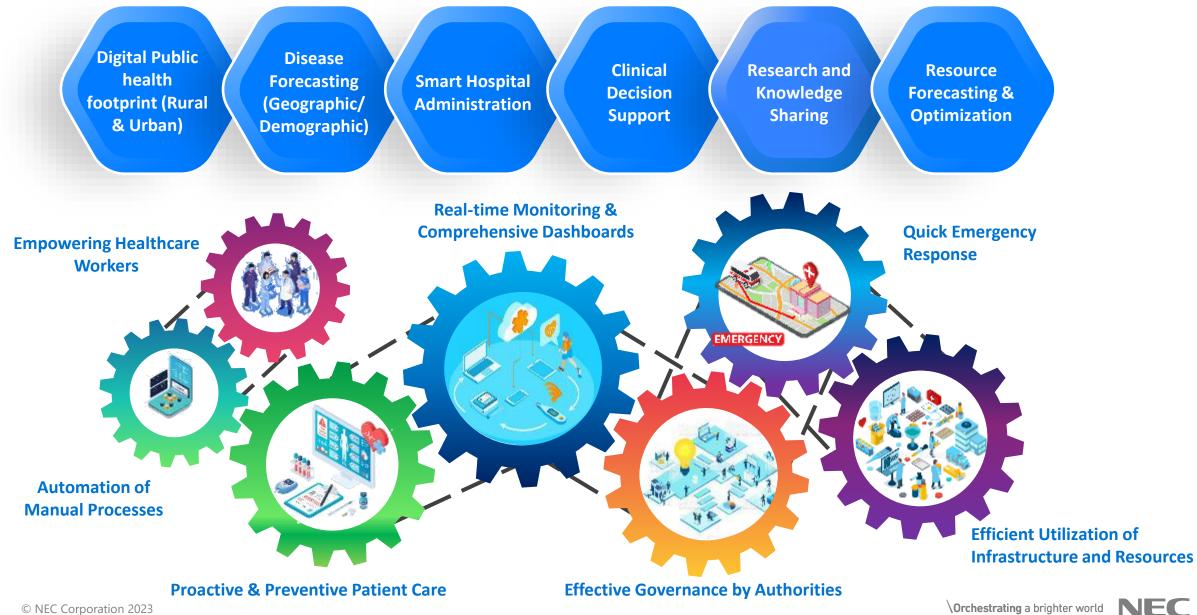


# **Solution Overview**

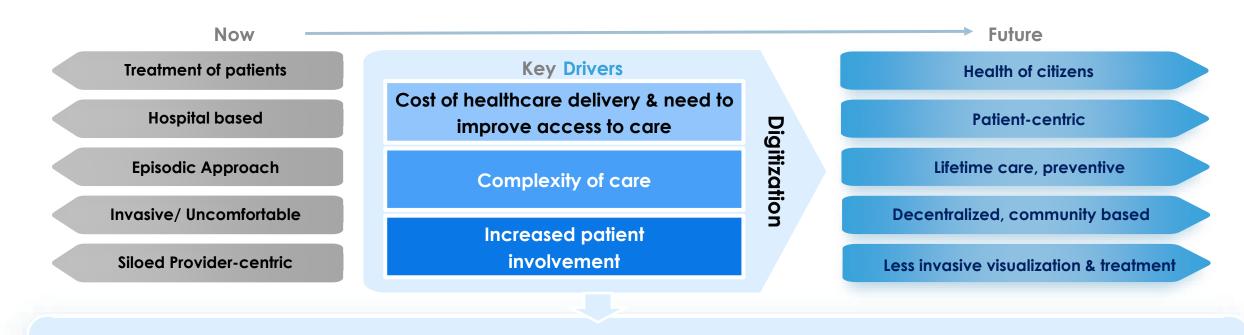
5 © NEC Corporation 2023



### Focus Areas & Envisaged Benefits



#### Healthcare Paradigm Transition Envisioned by NEC



#### **INTERGRATED HIMS PLATFORM**

#### combined with Transformative Digital health technologies

#### Health Analytics/Al

Collection & analysis of data for patients & healthcare providers (incl. data-driven performance management and patient/ clinical pathway management, clinical decision support)

#### Health information exchange (HIE)

Data sharing between providers to support access to patient records across health systems

#### Telemedicine

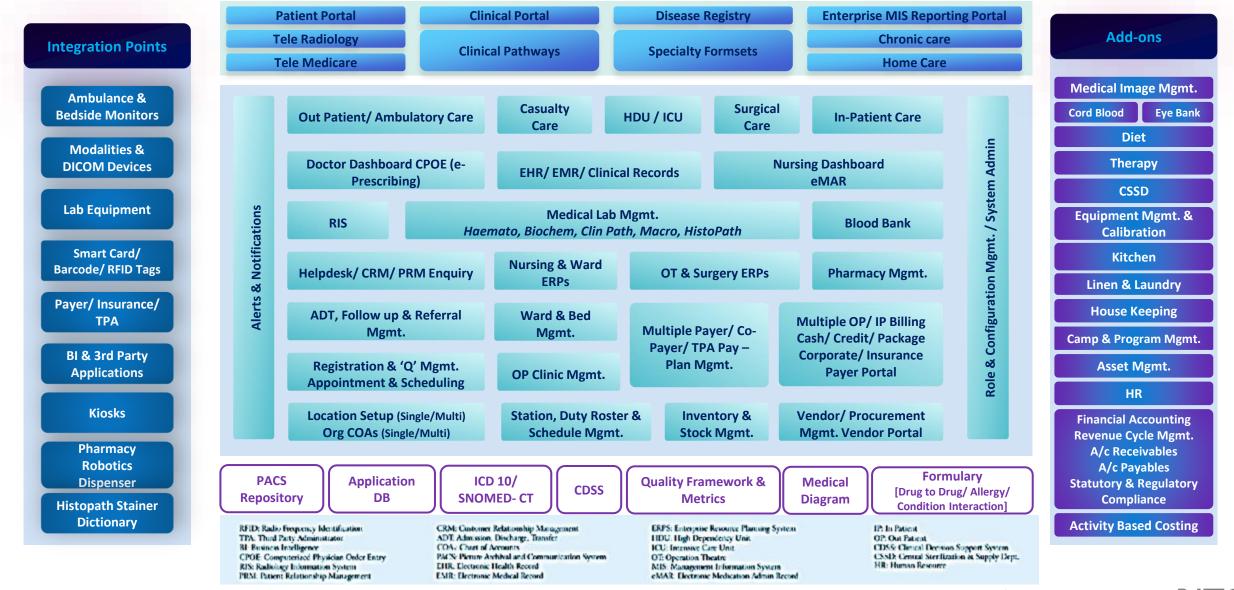
Remote diagnosis & treatment of patients by means of telecommunications technology

#### Patient engagement & Wearables

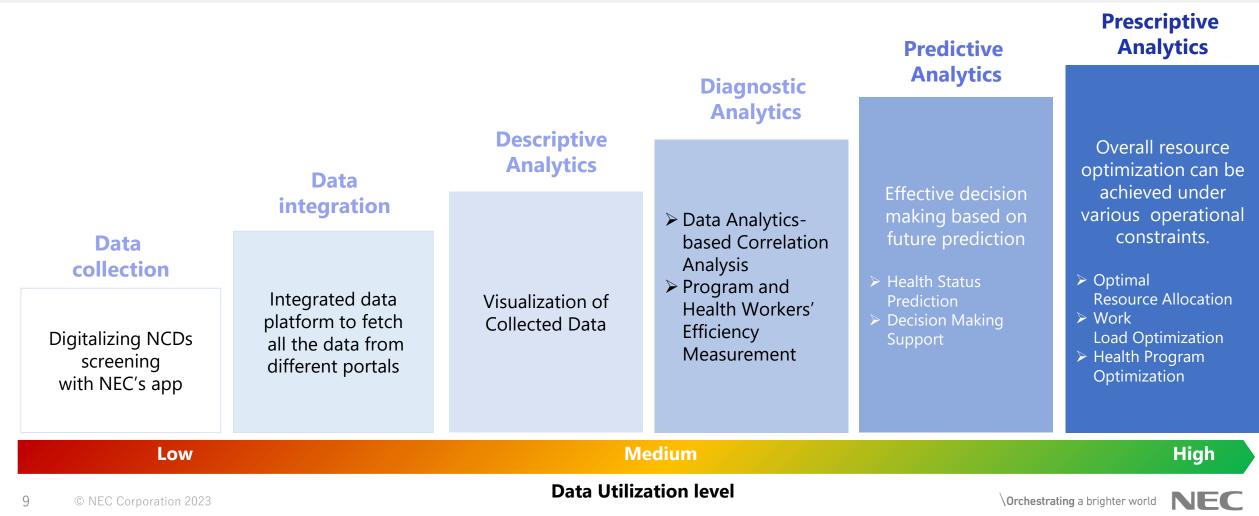
Utilization of digital tools to increase participation and promote positive patient behavior. Continuous vital-signs monitoring and feedback to patients and doctors using wearable devices

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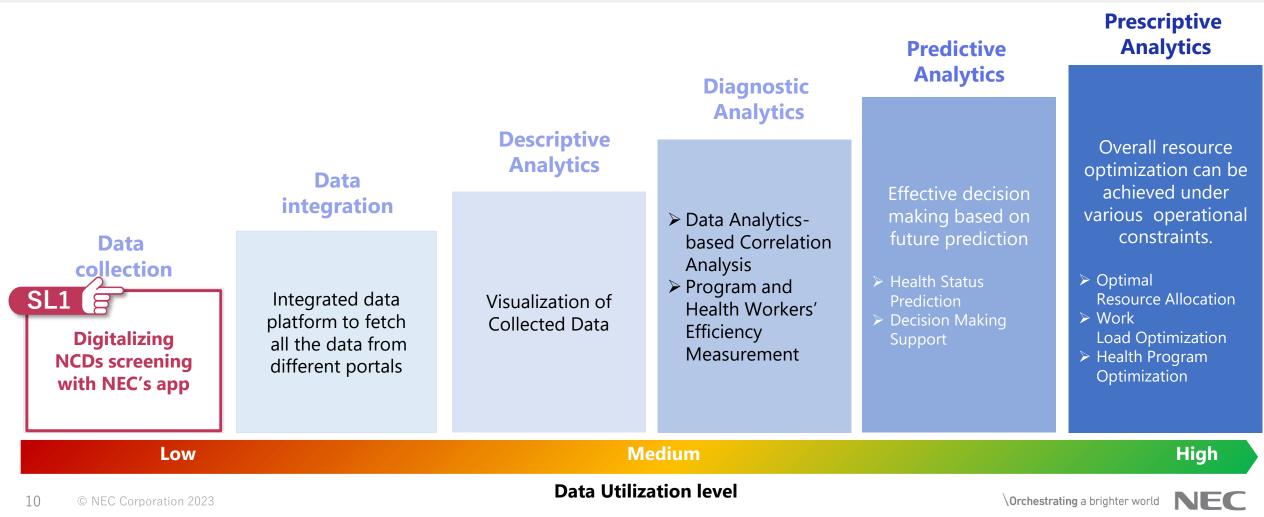
#### Healthcare Delivery Platform (HIMS Core Application & Modules)



By gradually raising the level of data utilization, we contribute topeople's health, efficient operations and social development

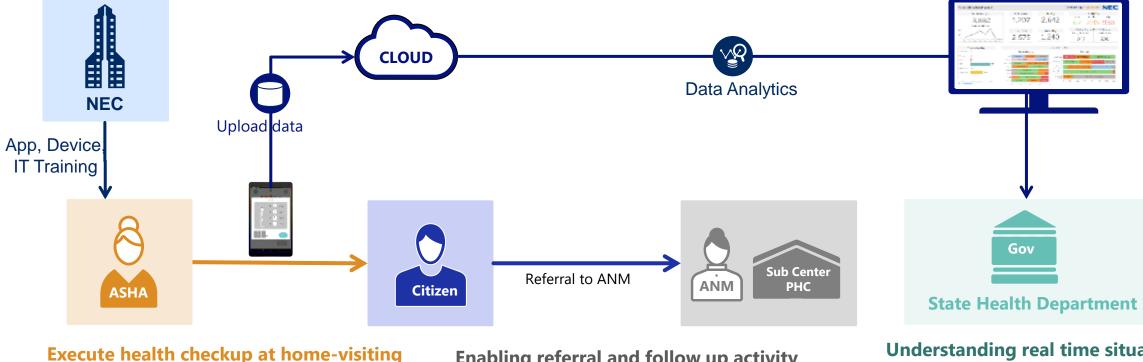


By gradually raising the level of data utilization, we contribute topeople's health, efficient operations and social development



## SL1. Population Screening solution(NCD)

Assist in NCD data collection, followed by data analysis using advanced analytics techniques to enable data-driven policy decisions, real-time progress tracking & follow up with citizens



style, health center or hospital

**Enabling referral and follow up activity** 

Understanding real time situation with interactive dashboard and executing data driven decision making

### SL1. Reference: Collaboration with Government of Bihar, India

Government of Bihar and NEC partner to provide preventive health check services.

- Provided occupational training to 16 ASHA (Community health worker in India).
- Signed MOU with Government of Bihar to do PoC for 2 months.
- 16 ASHA workers provided checkup service to **4200 people in 1.5 month.**

#### 1. ASHA Training



6<sup>th</sup> & 7<sup>th</sup> Feb 2020 (2 days)



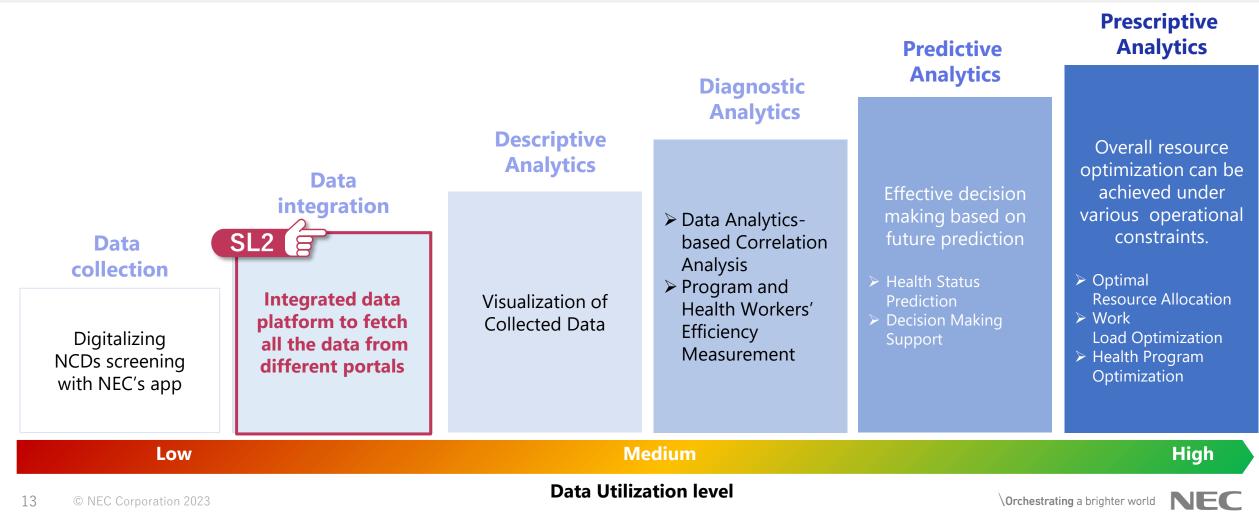
9<sup>th</sup> Feb 2020 (1 day)

#### 3. Actual PoC Operation

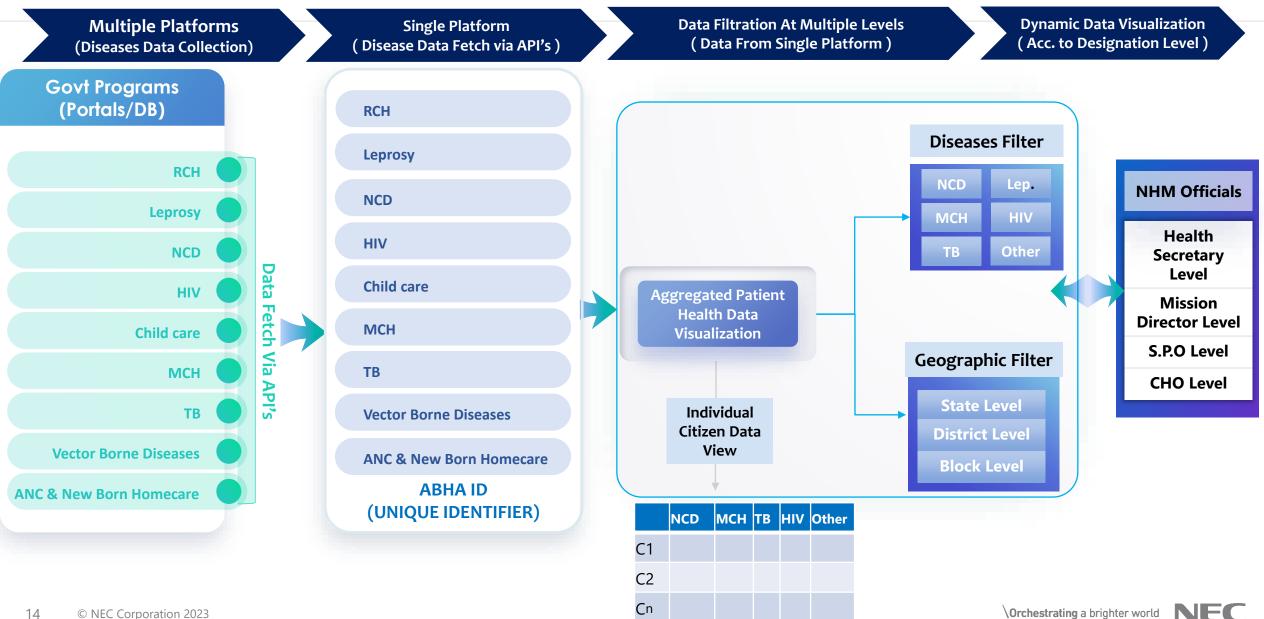


10<sup>th</sup> Feb to 25<sup>th</sup> Mar 2020 (45 days)

By gradually raising the level of data utilization, we contribute topeople's health, efficient operations and social development



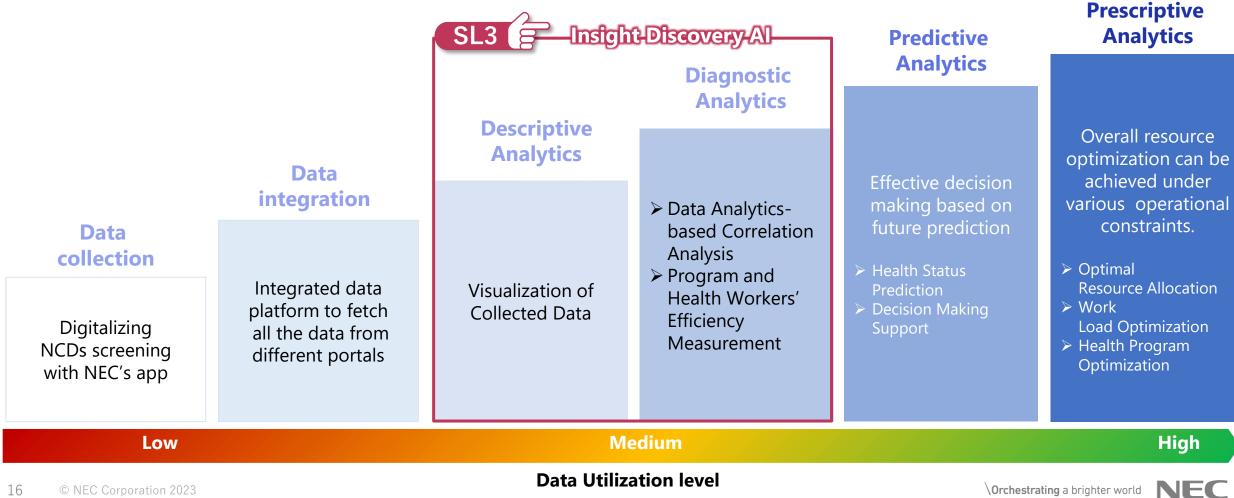
### SL2. Integrated Data Platform across Health programs



### Our achievement in Japanese HIMS industry



By gradually raising the level of data utilization, we contribute topeople's health, efficient operations and social development



### SL3. Insight Discovery Al

Al automatically visualizes and evaluates data characteristics to create analysis summaries. Also, it facilitates cost-effective analysis without relying on personal experience or knowledge.

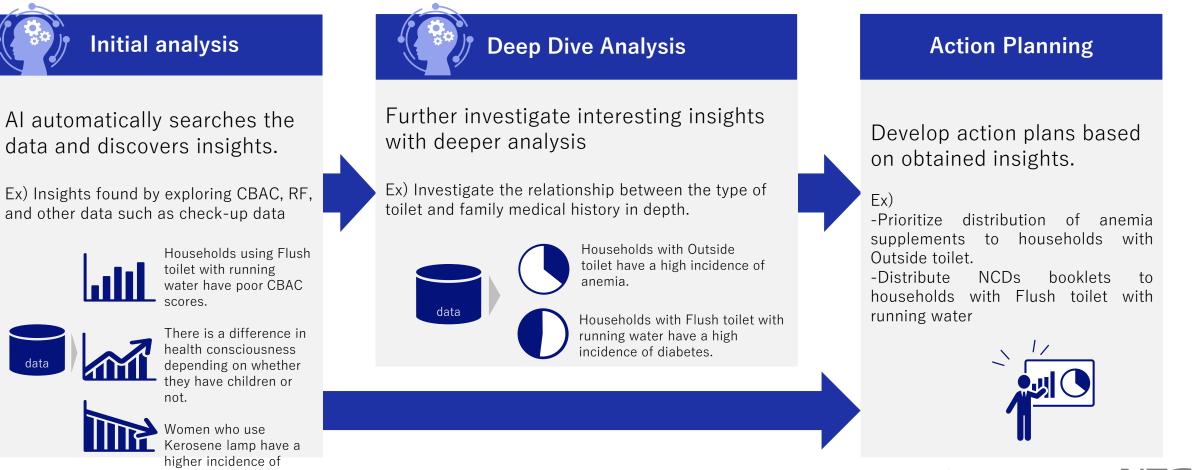
Auto Visualization and hypothesis validation	Summarize the results of the validation		n Action planning
AI performs data-driven analysis		Consideration of action plans based on insights and	
Automatically discover insights in the data.	Verbalize the insights obtained from the data and generate analysis summaries automatically		verbalized summaries generated automatically by Al.
Through Al's automatic insight search capabilities, Al reduces the workload in the hypothesis, analysis/visualization, and		Al can automatically discover and verbalize the insights from the entire dataset, enabling examination of action plans from new	

perspectives.

verification cycle.

# SL3. Insight Discovery AI (Use-case for state government)

Discover insights from the collected data using AI and utilize them to evaluate healthcare policies.

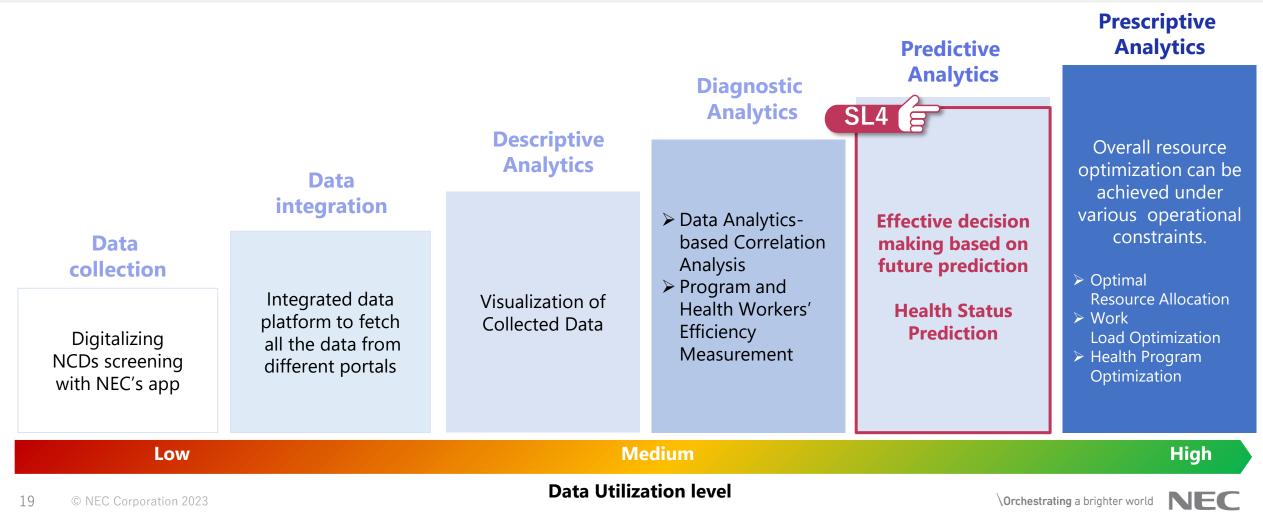


© NEC Corporation 2023 Bleeding between 18

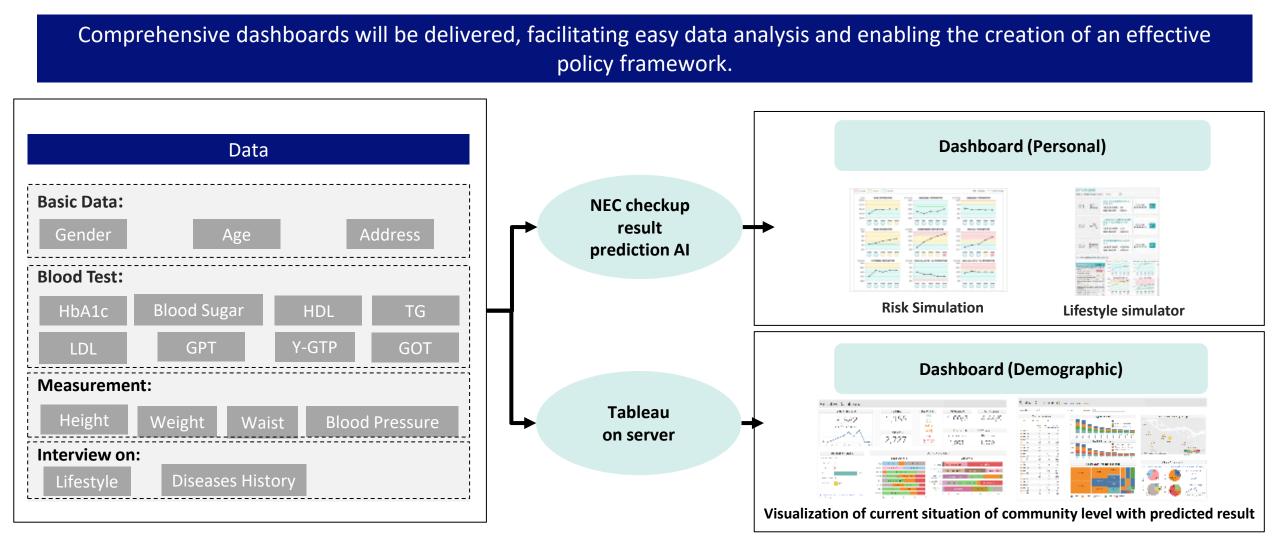
neriods

Note: The examples presented here are for illustrative purposes only.

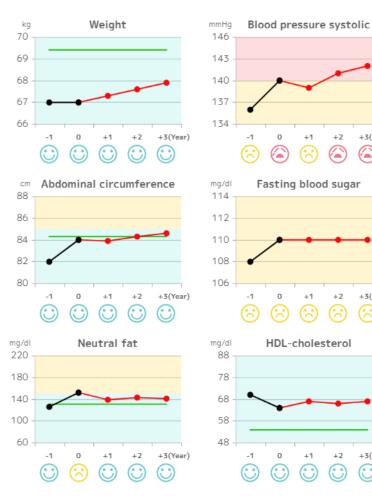
By gradually raising the level of data utilization, we contribute topeople's health, efficient operations and social development



### SL4. Health status prediction



# SL4. Health status prediction (Output image)



#### **Risk simulation**

+2

+2

+2

+1

+3(Year)

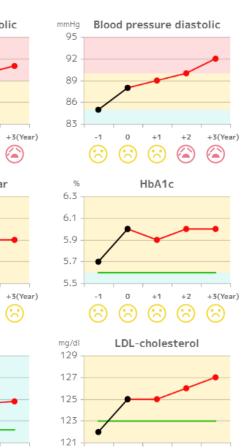
-1

0

+1

+2

+1

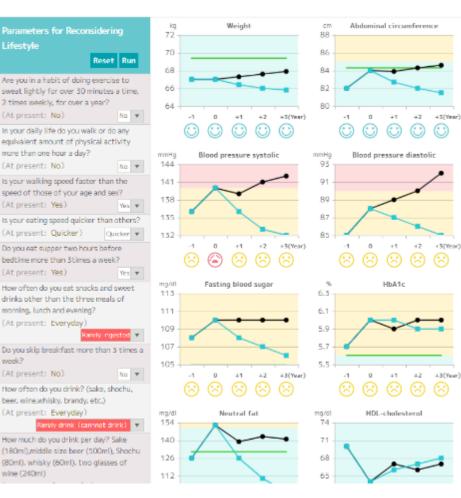


week?

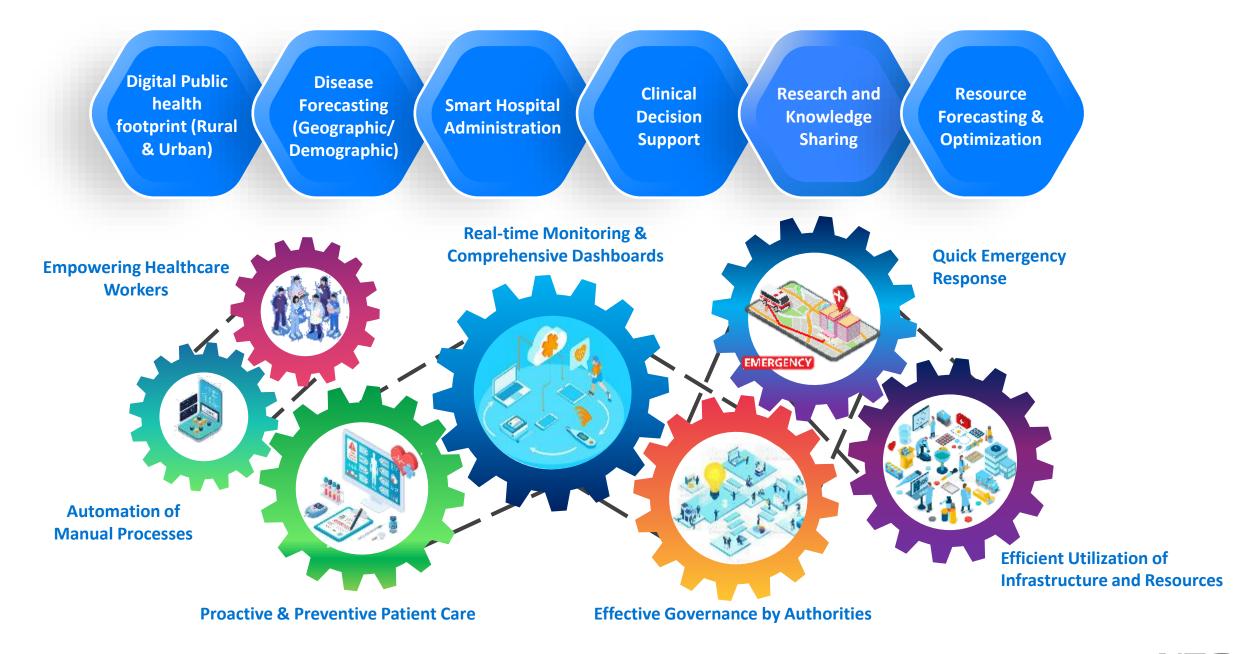
wine (240ml)

+3(Year)

#### Life-style simulation



+S(Year)



# **Orchestrating** a brighter world

NEC creates the social values of safety, security, fairness and efficiency to promote a more sustainable world where everyone has the chance to reach their full potential.