

sansan DSOC

Data Strategy & Operation Center

Presentation Material for DSOC, the Data Integration Division

Sansan, Inc.

April 14, 2021



Satoru Joraku

Sansan, Inc.
Director, CISO ⁽¹⁾, DPO ⁽²⁾, Managing Executive
(DSOC ⁽³⁾)

Satoru cofounded Sansan Inc. in 2007 and he initially led product development of the Sansan, a B2B cloud-based contact management service. He now serves as the Director of Sansan's research hub DSOC, which conducts analysis and application of collected data, and refines the company's digitization technology. He also drives and implements internal security measures as CISO.

(1) Chief Information Security Officer
(2) Data Protection Officer
(3) Data Strategy & Operation Center

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- **Mission and Roles**
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- **Organizational Structure**
- **Outstanding Engineers and Researchers**

2 DSOC's Role

3 DSOC in the Future

Mission and Roles

Create a competitive advantage in the market as a data management division

Mission

Activating Business Data

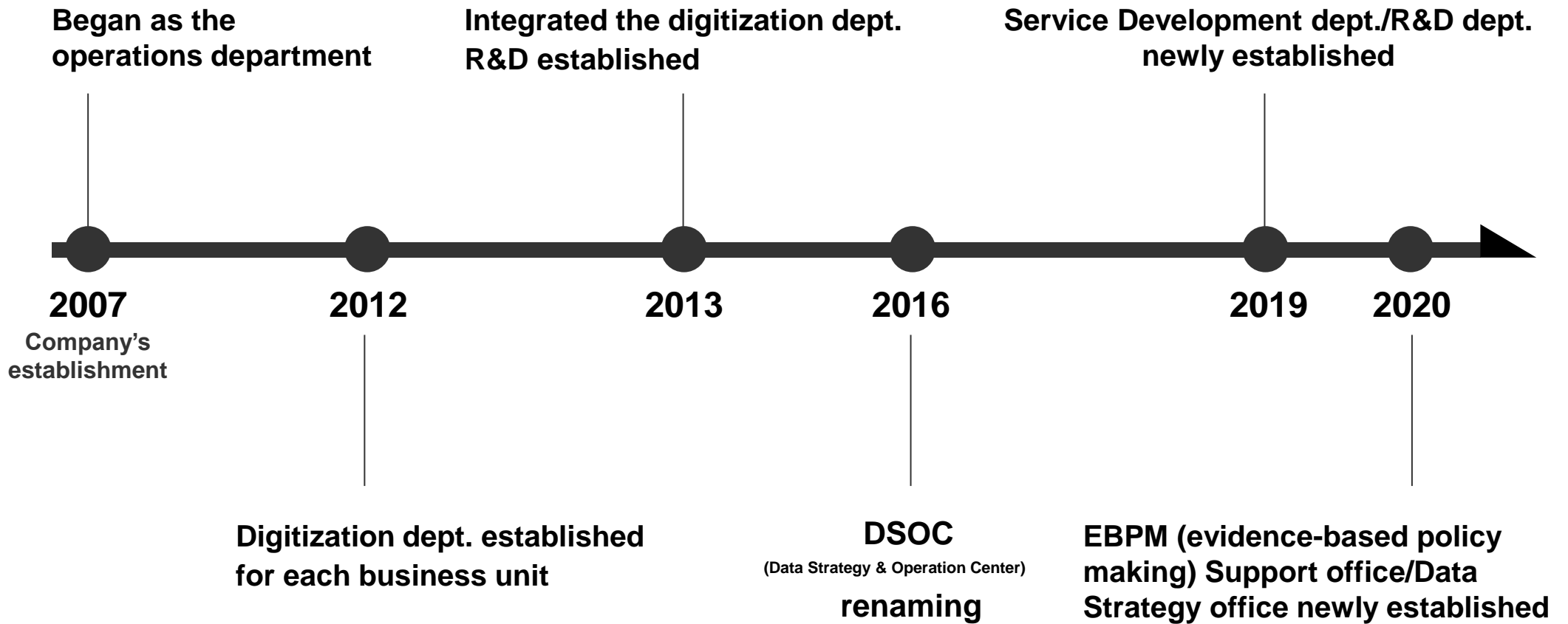
Through publicly available business data, such as business cards, documents, financial results, and stock information, we build “Encounter Database” that creates new possibilities leading to the future of business and society.

3 Roles of DSOC

Generating, Organizing, and Utilizing data

History

From a business card digitization department to a data management division handling all types of business data



Organizational Structure, Personnel

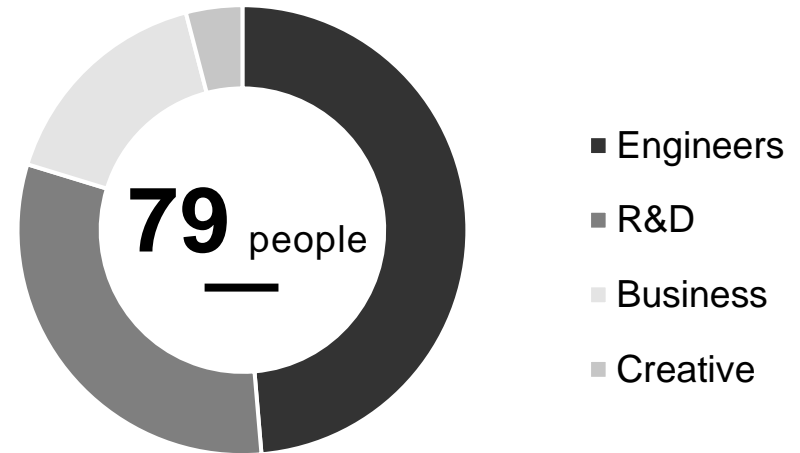
Structure centered on service operation/development and R&D related to data utilization
Most personnel are engineers and researchers

DSOC organizational structure ⁽¹⁾

sansan **DSOC**



DSOC staff ⁽²⁾



(1) As of 3/1/2021
(2) As of 2/28/2021

Outstanding Engineers and Researchers

In addition to engineers involved in digitization technology, DSOC has specialists with diverse backgrounds, such as social science and economics researchers

Image Processing

**Natural Language
Processing**

Deep Learning

Machine Learning

Complex Networks

Economics

Business Administration

Sociology



PhDs

Science (2), Economics (1), Engineering (2)

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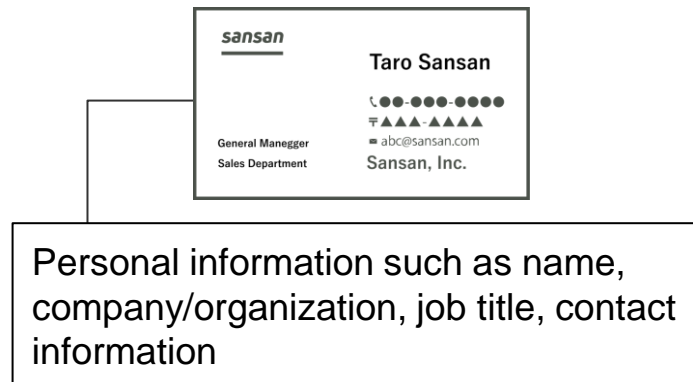
- Data Generation
- Data Organization
- Data Utilization

3 DSOC's in the Future

Data Generation: Unique Issues in Business Card Digitization

Business card information must be accurately digitized for effective data utilization
Practically difficult to correctly convert business card info into data using only OCR because of unique issues in business card digitization

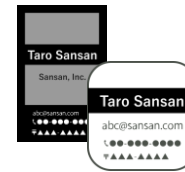
Accuracy needed for business card digitization



If even one character in the data is incorrect, the value as information is damaged.

Digitization of business cards requires as much as 100% accuracy.

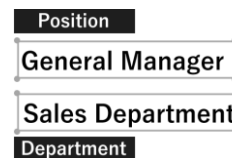
Issues in business card digitization



- **Atypical**
Varying designs, shapes, fonts



- **Image Quality**
Depends on shooting environment



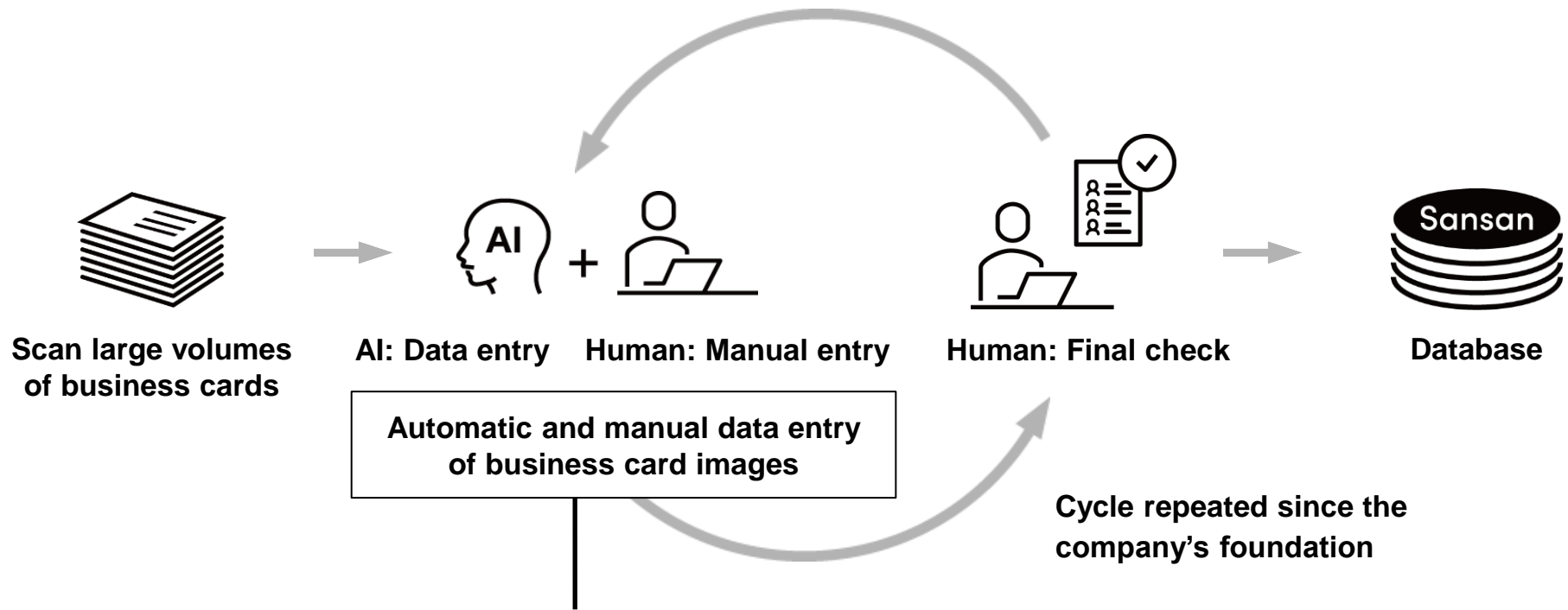
- **Item Identification**
Judgment of names, titles, etc.
Unified notation rules

Accurate digitization is difficult if only using OCR.

Data Generation: Business Card Digitization Operations

Mechanism & tech to achieve 99%+ accuracy in digitization – source of competitive advantage

Prompt and accurate digitization of a large volume of business card information



Combination of Technologies

Automatic detection and microtasking of business card information

Automatic detection of business card language

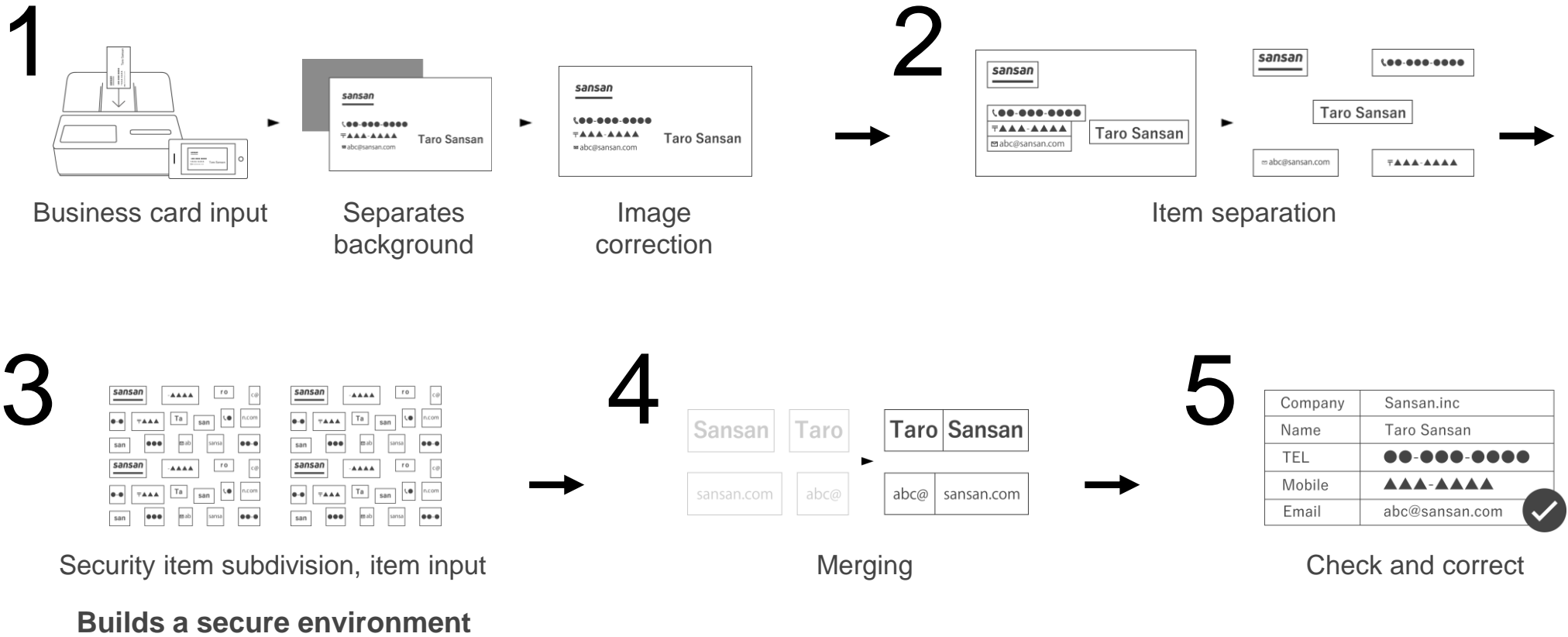
Automatic sorting to operators

Diverse network of data entry operators

Image processing technology

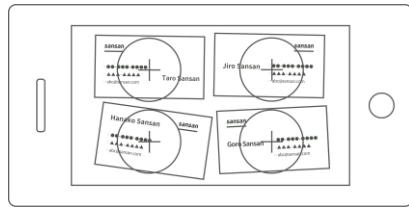
Data Generation: Ways of Supplementing OCR -1- GEES Digitization System

A unique operation system that accurately and efficiently digitizes high volumes of business cards



Data Generation: Ways of Supplementing OCR -2- AI/Image Recognition Tech

High-speed and high-precision digitization of business cards using unique image recognition technology with AI



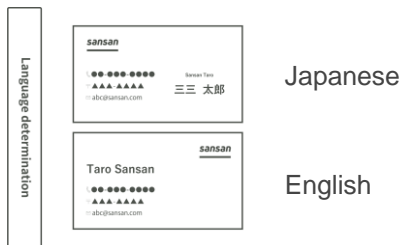
Smart Capture

Technology that enables users to receive results



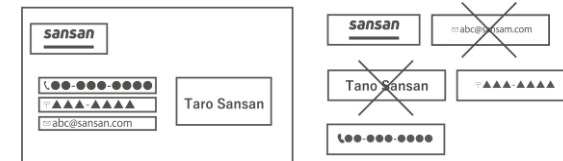
Item Segmentation

Distinguishes items from the business card design without reading letters



Language determination

Judges language without reading letters



Mistake Detector

Learns errors trends and predicts potential mistakes

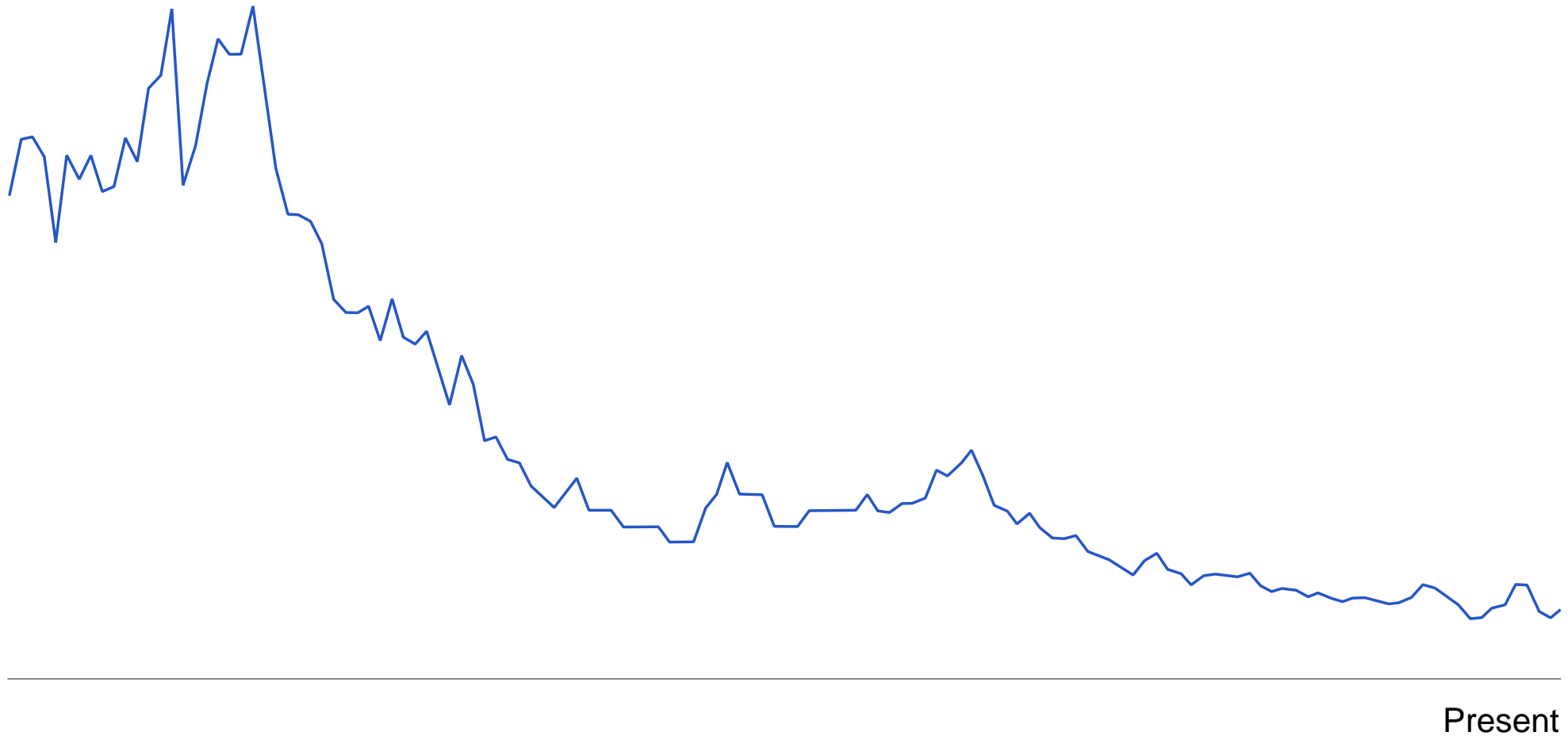
Data Generation: Ways of Supplementing OCR -3- DSOC OCR

We independently developed an OCR engine specializing in business cards, and that can read email addresses with 99.7%+ accuracy. We will continue researching and developing digitization for all business card items.



Data Generation: Changes in Digitization Cost per Business Card

With the evolution of business card digitization, the cost per card will be less than 1/20 what it originally was.



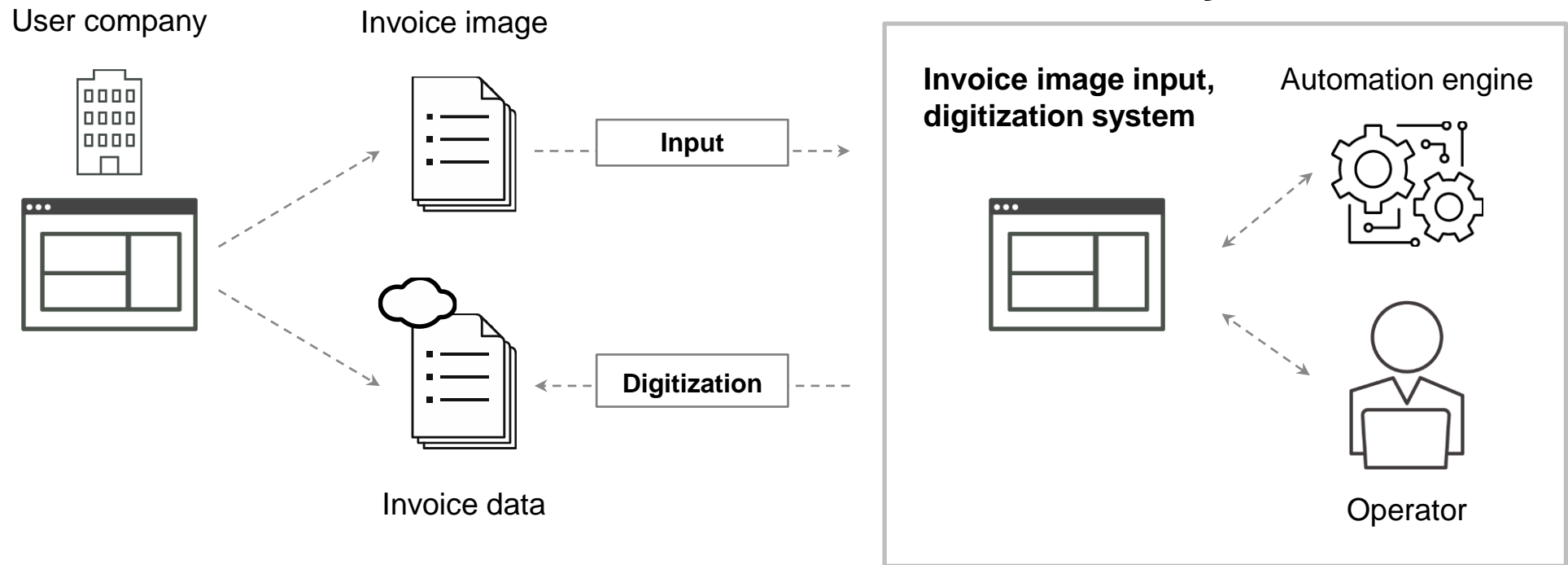
Present

Data Generation: Using Digitization in Operations for Other Fields

Expanding accurate business card digitization operations to other fields, such as invoice digitization



Bill One Entry



Data Organization: Challenges in Effective Data Use

Some accumulated data cannot be fully utilized for sales and marketing because of data problems such as outdated information and empty data items.

Company name	SAN SAN, Inc.	Old business name
HP		Empty data field
Tel.	+81-3-6758-0033	
Address	5-52-2 Jingumae, Shibuya-ku, Tokyo, 150-0001, Japan	
Contact name	Taro Yamada	
Department	Digital Marketing	
Job title	Director	Old job title
E-mail	Yamada.taro@33i.co.jp	

Data Organization: Building Data Infrastructure

Use accurate and up-to-date business card data, enrich with other items, establish data infrastructure for effective business use



Normalizing & updating

Company name	Sansan, Inc.	Correct name
URL	https://www.corp-sansan.com/	
Tel.	+81-3-6758-0033	Fill in missing info
Address	5-52-2 Jingumae, Shibuya-ku, Tokyo, 150-0001, Japan	
Contact name	Taro Yamada	
Department	Digital Marketing	
Job title	Director	Updated job title
Email	Yamada.taro@33i.co.jp	



Enrichment with added info

Reg. name	Sansan, Inc.	Est.	June 2007
Corp #	4010001120965	Fiscal end	May
TDB Code	989671019	Position	Representative Director & CEO
Main business	Information processing	Name	Chika Terada
Industry	Package software	IPO	Yes
Capital (yen)	1–10 billion	Performance information, affiliated companies, company news, etc.	
Employees	500–1,000		
Revenue (yen)	10–30 billion		



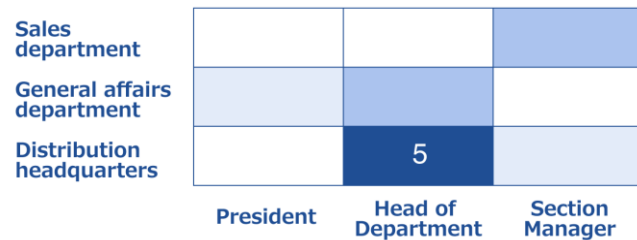
Performance information, affiliated companies, company news, etc.

Data Utilization: "Sansan Labs" changing the future of business

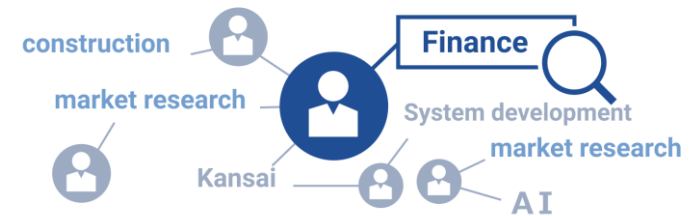
"Sansan" provides experimental functions to solve business problems via use of cutting-edge data

Simply scanning a business card lets the user experience DSOC's experimental analysis functions that support efficient sales activities and in-house staff's knowledge and network utilization.

Sales Tech: supporting sales activities

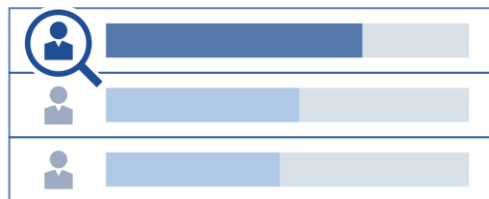


HR Tech: talent management



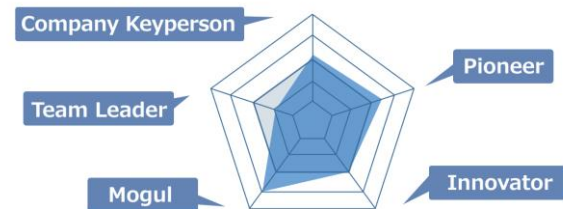
An Overview of Points of Contact for Each Customer

Account-based marketing (ABM) dashboard (β)



Search Your Colleagues Based on Their Expertise

Search internal knowledge (β)



Find a Key Person in a Business Area

Hot lead recommendations (β)

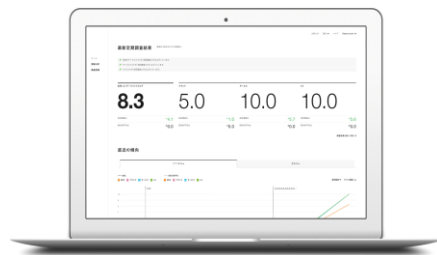
Understanding Strengths through Trends in Connections

Businessperson type analysis (β)

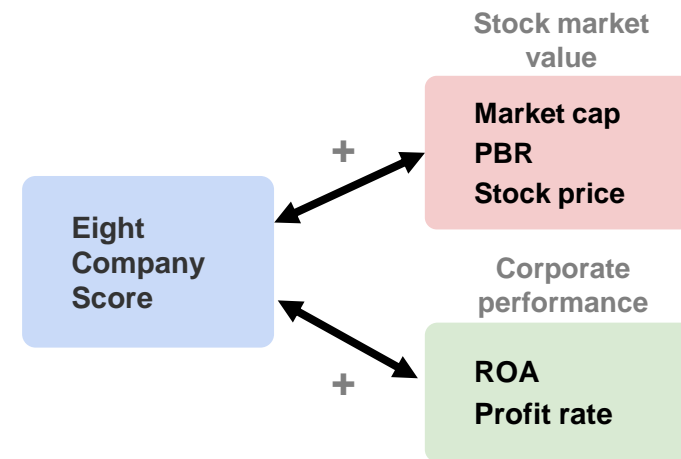
Data Utilization: Work by the EBPM Support -1- “Eight Company Score”

This unique index quantifies corporate assessments using the business network of the business card management app “Eight.” The score is closely related to the social aspect of Environment, Social, Governance (ESG), and we have started research on developing an investment trust index.

Eight Company Score



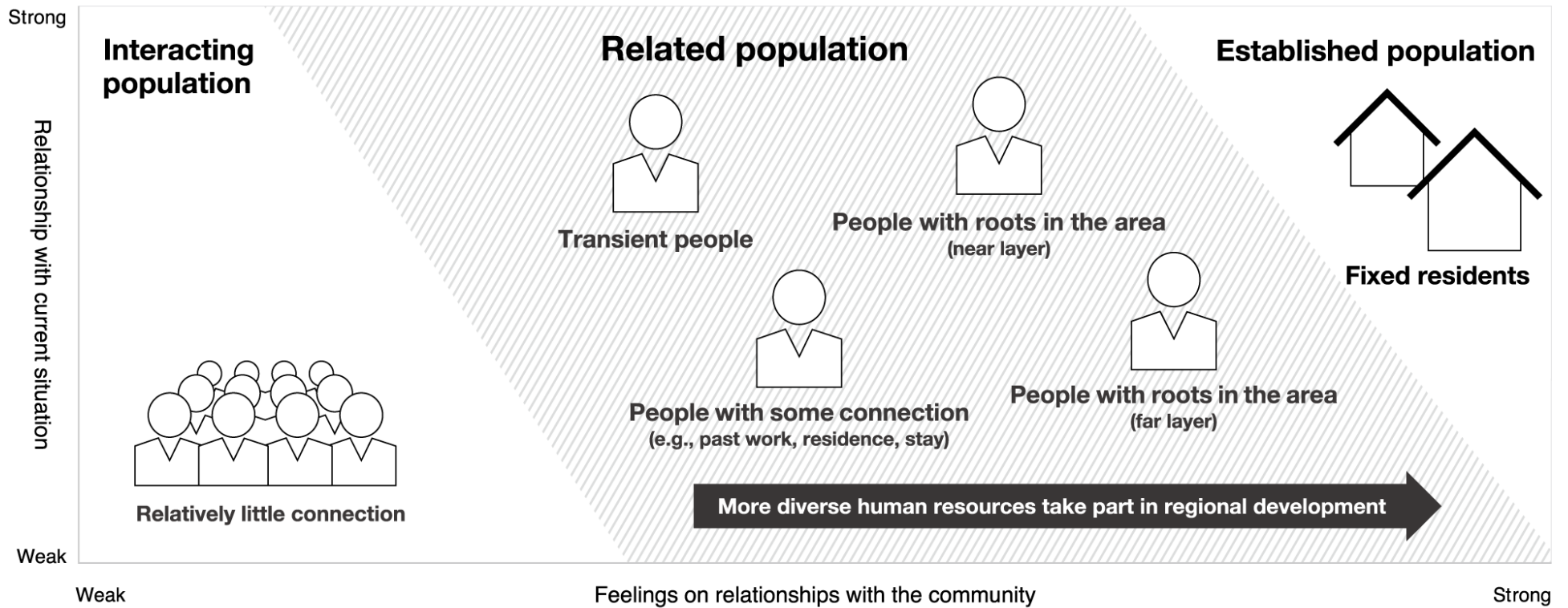
Can quantify and quantitatively grasp the strength of relationships between B2B companies



Research results showing relationship between stock market value and corporate performance

Data Utilization: Work by the EBPM Support -2- “Business-related population”

This unique index shows the degree of the relationship between the region and business. It supports administrative efforts, looking at use in regional revitalization and disaster-recovery policies.



Source: Created by processing the "Related population" portal site (Ministry of Internal Affairs and Communications)

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– DSOC's Aims as We Move Forward

DSOC's Aims as We Move Forward

A background graphic featuring a network of interconnected nodes and lines, transitioning from a light blue on the left to a light orange in the center, and then back to light blue on the right. Below the network, there is a pattern of small, light gray dots arranged in a grid that fades out towards the bottom.

Become business infrastructure

**Optimize business encounters to solve
business problems faster and more efficiently**

sansan

