

Talent Transformation for Digital Transformation

Dr. Chan Lee Professor, Seoul National University

Dr. Chan Lee



Career

- Present,
 Professor of Vocational Education & Workforce Development in Seoul National University
 Dean of Extension College at Seoul National University
 Chairman of the ATD Korea Summit
- Former,

Director of the Career Development Center in Seoul National University Team Leader of HR Team in LG Electronics, USA, Inc. HR Specialist of HR Team in LEGO Korea

A member of ASTD ICE Program Advisory Committee (PAC) in 2010 and 2011

∨ Book

- Work and Learning Balance for the Post-COVID-19 Era: Insights from the Republic of Korea, Powering a Learning Society During an Age of Disruption, (ADB Press, 2021)
- Talent Transformation for the Digital Transformation, CTDO Magazine, (ATD Press, 2021)
- Destination Facilitation: A Travel Guide to Training Around the World (ATD Press, 2018)
- Implementing On-the-Job Learning: Thirteen Case Studies from the Real World of Training(ASTD Press, 2002)

✓ Education

Ph.D. in Human Resource Development, The Ohio State University, USA



- I. Environmental Changes in the DX
- II. Collaboration with AI: OX & TX
- III. Implications



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Digital Transformation Era

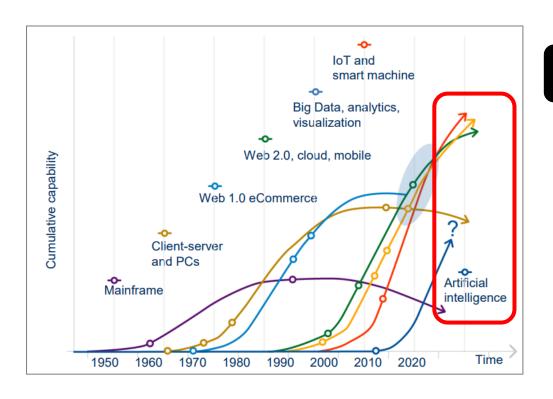


Post Pandemic, "New Normal"

Significant impact across socioeconomic, political, cultural, and daily life...

Changes in the labor market & the rapid spread of 'Digital Transformation'

Digital Transformation Era



5 ways Digital Business Transformation

- 20% of worldwide businesses will create digital divisions
- Cloud-first strategies will dominate digital growth
- "Buy" buttons will be everywhere
- DOP will further replace ERP, leading to more platform innovation
- Outcomes-based pricing will grow for digital transformation services

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Source: Digital Transformation Initiatives Report. (2018). World Economic Forum/Accenture analysis Brandon Vigilarolo (2020, October 30). 5 ways digital business will change in 2021. TechRepublic

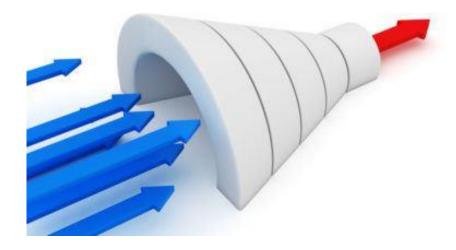
Do Al really Replace Human Workforce?

Albeit the rapid shrink of types of tasks that AI cannot perform, three types of tasks corresponding to engineering bottlenecks are hard to be replaced by automation

"Engineering Bottleneck (Frey & Osborne, 2017)"



Perception and Manipulation Tasks
Tasks requiring the high and deep level of perception and manipulation



Creative Intelligence Tasks

Tasks requiring creativity, such as proposing original ideas appropriate to creative values

3

Social Intelligence Tasks

Tasks requiring human social interaction and cognition of human emotions

Source: Frey, C. B., & Osborne, M. A. (2017). The future of employment: how susceptible are jobs to computerisation?. Technological forecasting and social change, 114, 254-280.

Global HR Trends

1. Hybrid work model

 Organizations to adopt a hybrid work model

 Delivering better business results while ensuring employee wellness

2. Employee wellness

- employer invest in employee wellness programs
- 85% of employees, experienced higher levels of burnout (Gartner, 2021)



5. Data literacy

 Data literacy and data mining skills using the latest technologies and automation

4. Employee Upskilling and Reskilling

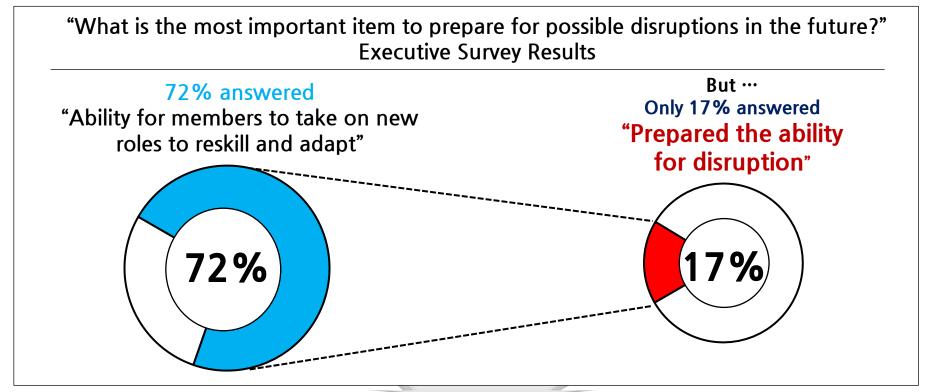
- Business to focus on upskilling and reskilling their existing workforce
- The shortage of multi-talented professionals willing to change jobs
- 3. D.E.I (Diversity, equity and inclusion)
- Organizations penetrate a wider talent marketplace and build a global brand

"Changed the rules of the game — forever"

Source: Forbes. (2022. January 19), Emerging HR Trends For 2022 And Beyond. www.forbes.com/sites/forbeshumanresourcescouncil/2022/01/19/emerging-hr-trends-for-2022-and-beyond/?sh=569f5b5a3140

Global HR Trends: 4 Upskilling & Reskilling

[Deloitte, 2021 Global Human Capital Trends Reports]



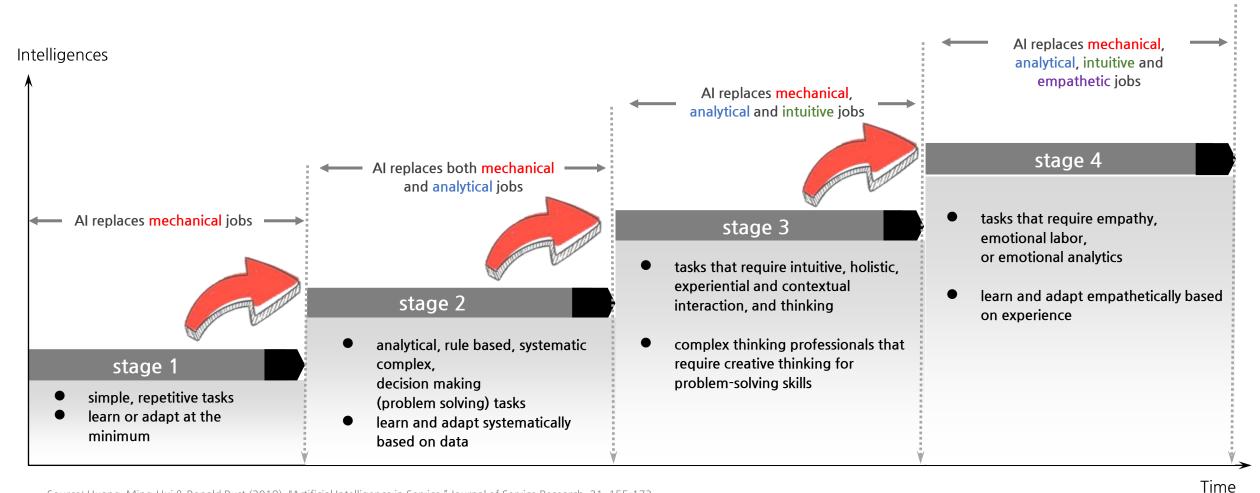
Respondents empathizes the importance of Upskilling and Reskilling However, many companies do not have specific directions for the future

Source: Deloitte, (2021). Global Human Capital Trends.



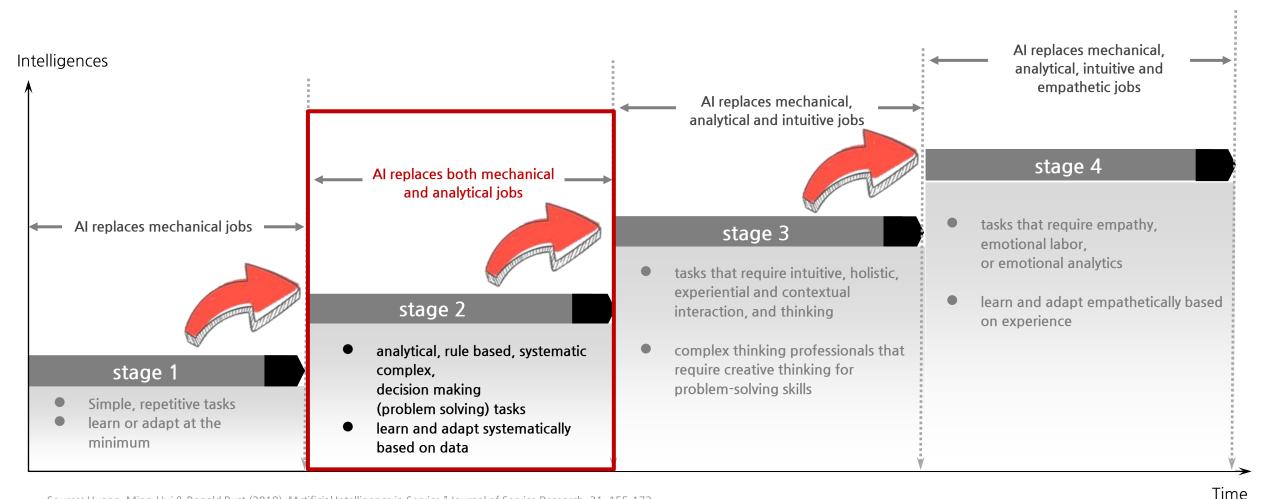
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Four Stages of intelligence: Huang, Ming-Hui & Ronald Rust(2018)



Source: Huang, Ming-Hui & Ronald Rust (2018), "Artificial Intelligence in Service," Journal of Service Research, 21, 155-172.

Four Stages of intelligence: where JUVIS stands



Source: Huang, Ming-Hui & Ronald Rust (2018), "Artificial Intelligence in Service," Journal of Service Research, 21, 155-172.

Best Practice of JUVIS Group

Total Healthcare Company





Customized diet solution



Online shopping mall for Health food, Functional product, Healthcare device



Juvis Diet App, can be managed through an AI chatbot

Best Practice of JUVIS Group





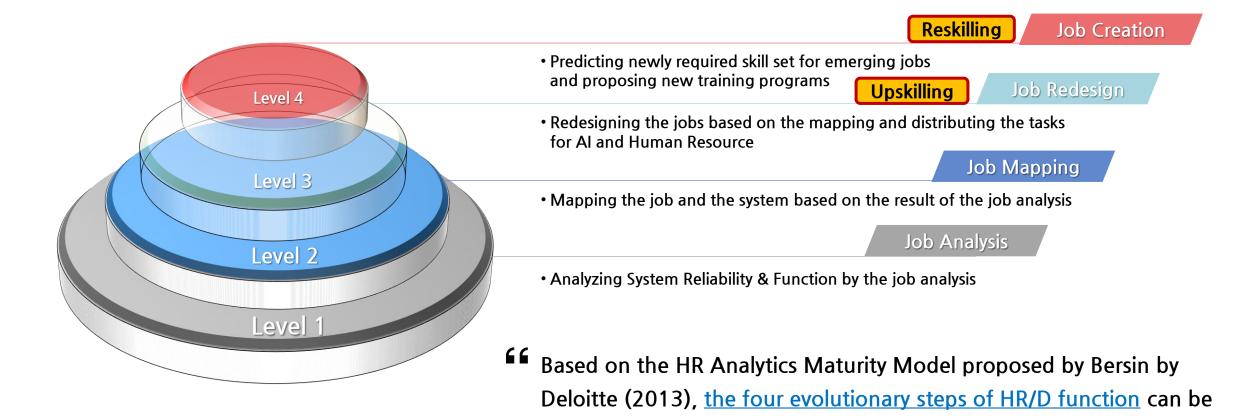
Total Healthcare Company



Tactical HR Strategy



Four evolutionary steps of HR/D function



Source: Lee, C., Cho, S. K. (2019, May). Demystify the Truth of Workplace Automation. 2019 ATD ICE Education Session, Washington, D.C.

Seoul National University Chan Lee (2022)

predicted resulting from introducing AI at workplace.

JUVIS Hybrid (HR+AI) Roadmap

STEP 1 (2018~)

Diet Consulting Service (Core Business)

Provide personalized diet plans through Al consultant

STEP 2 (2021~)

Customer Counseling Service (Job Detail)

- Develop personalized scenarios by defining the counseling process
- Implement the customized counseling through conversation-based data collection
- Improve quality of the customer experience and the counseling

JUVIS Hybrid (HR+AI) Roadmap: STEP1

STEP 1 (2018~)

Diet Consulting Service

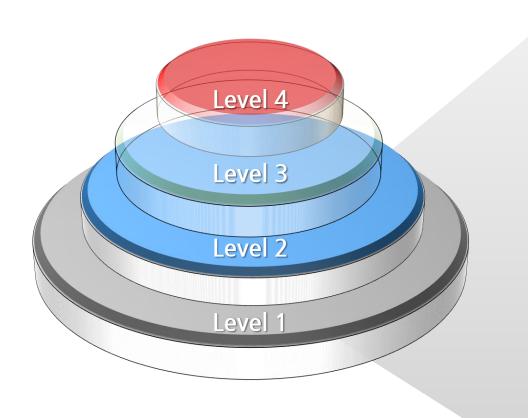
Provide personalized diet plans through Al consultant

STEP 2 (2021~)

Customer Counseling Service

- Develop personalized scenarios by defining the counseling process
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Upskilling & Reskilling Strategy for DX (1/6)



Level 1: Job Analysis

• Defining the core competencies for JUVIS employees

JUVIS Core Competencies

- Writing Documents
- Social Intelligence
- Planning and Organizing
- Analyzing Data
- •Managing Resources and Time
- Defining the core competencies for the specific departments

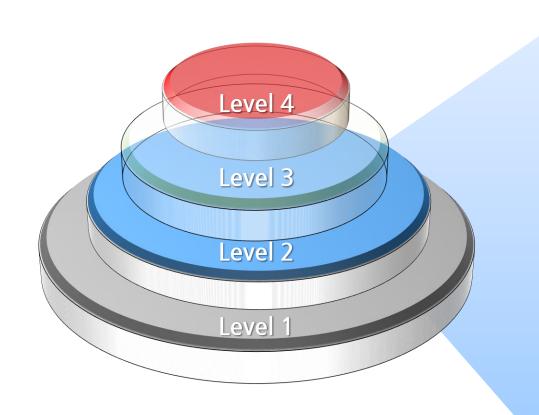
Finances (Job Competencies)

- Managing Funds
- Managing Assets
- Analyzing Financial States, etc.

Marketing / PR

- Proposing New Plans for Advertisements
- Planning New Offline Advertisements
- Proposing New Marketing Plans for franchises
- Tactical Planning & Implementation of consultation for unique customer experience.

Upskilling & Reskilling Strategy for DX (2/6)



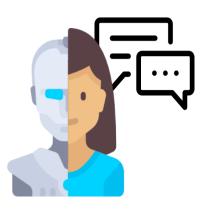


 Research on the estimated separation of labor between AI and Human consultant





Upskilling & Reskilling Strategy for DX (3/6)



Automating Consulting Service

Juvis has embarked "AI Consultant" which can suggest an individualized weight loss program for customers based on their personal history

Robots specialized in repetitive tasks for automation

AI & HR Collaboration based on Job Analysis

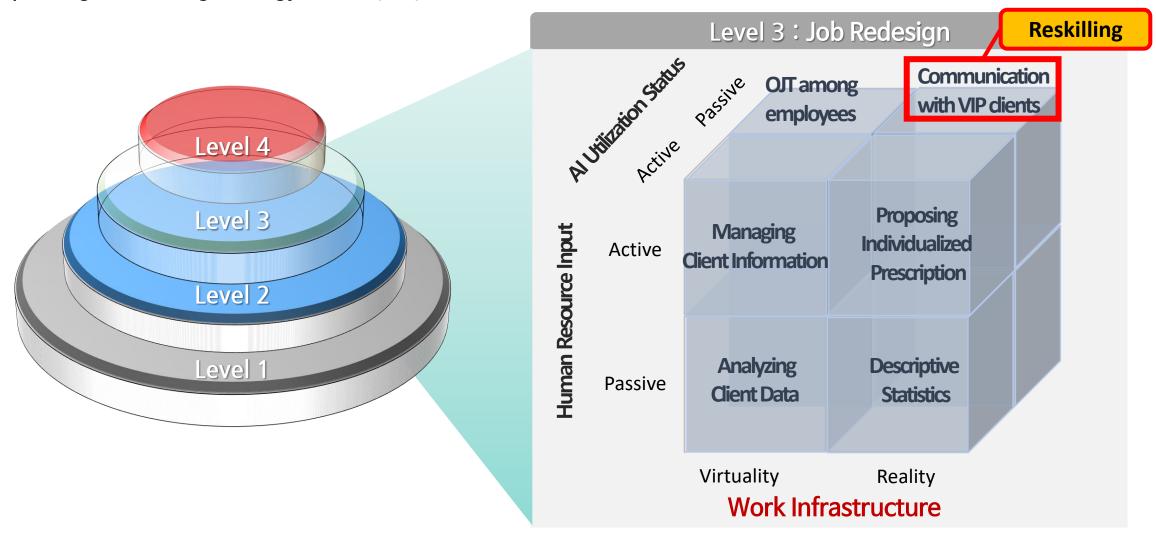


Job Redesign via Job Analysis

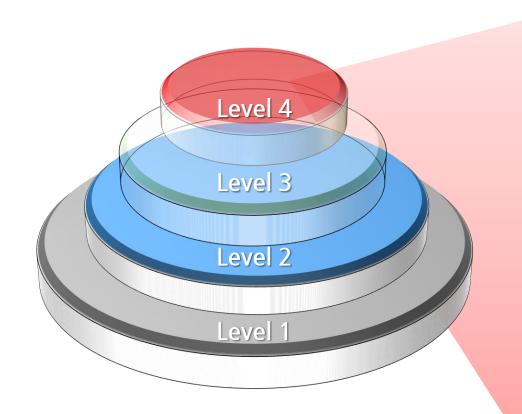
While introducing AI at workplace,
JUVIS cooperated with HR specialist
to design new jobs
based on job analysis

Human Resource that can utilize competencies that only a human-being has

Upskilling & Reskilling Strategy for DX (4/6)



Upskilling & Reskilling Strategy for DX (5/6)



Level 4: Job Creation



Creating New Business Area

Proposing new areas of business based on the thorough research on interaction between AI and human workforce



Predicting the Required Competencies

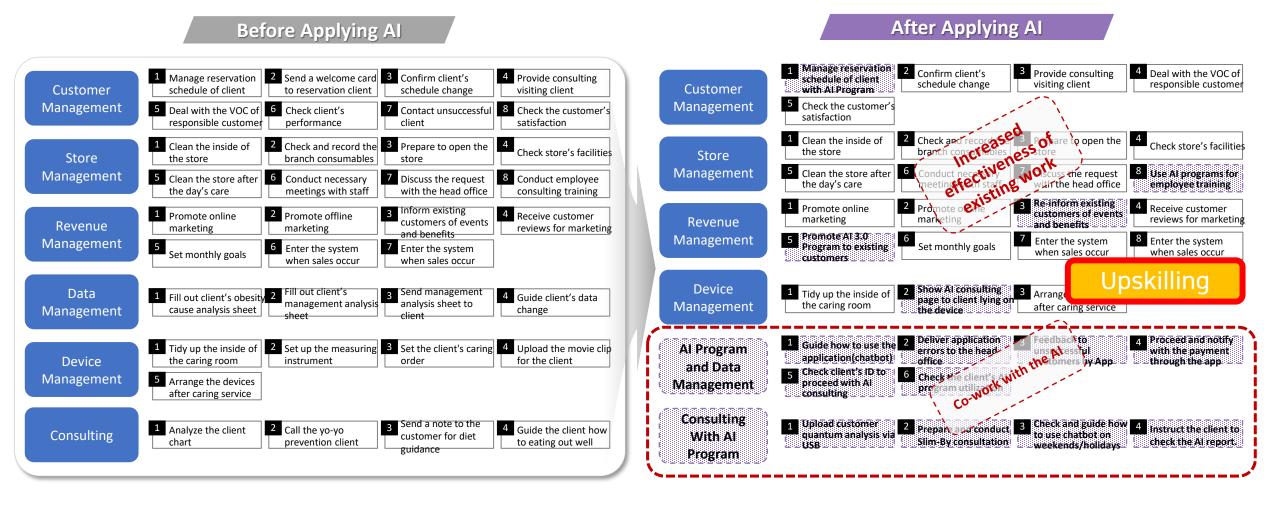
Predicting transformed skill set necessary for performing newly divided or designed tasks



Suggesting L&D Strategy

Suggesting more flexible yet innovative L&D strategy for fostering the newly proposed core competencies

Upskilling & Reskilling Strategy for DX (6/6)



JUVIS Hybrid (HR+AI) Roadmap: STEP 2

STEP 1 (2018~)

Diet Consulting Service

Provide personalized diet plans through Al consultant

STEP 2 (2021~)

Customer Counseling Service

- Develop personalized scenarios by defining the counseling process
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JUVIS Collaboration Tactic in Marketing/PR

Job Analysis

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Job Mapping

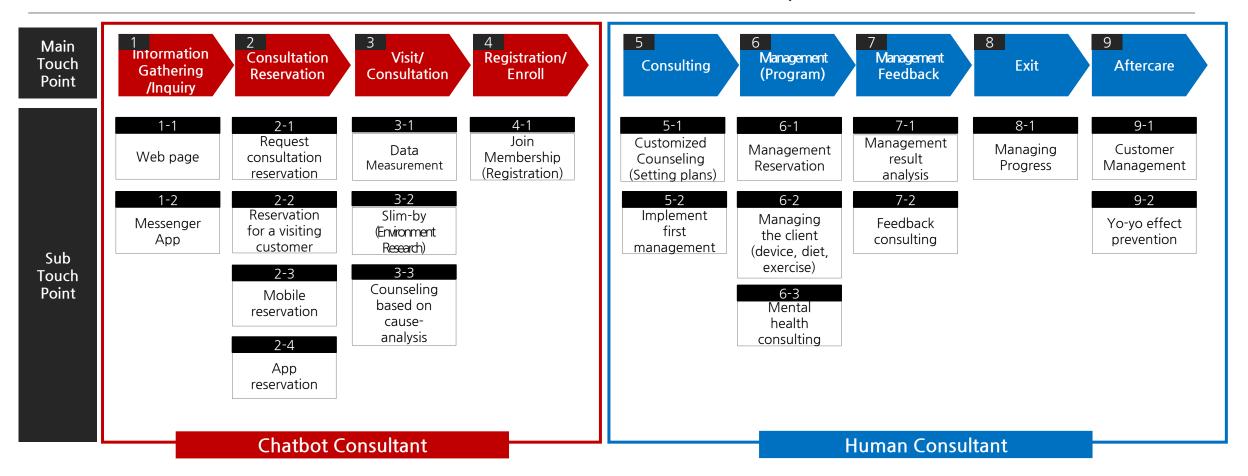
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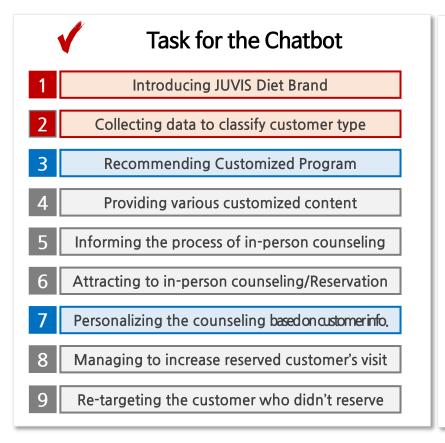
Customer Experience Process & Chatbot Collaboration

Chatbot Collaboration area based on Customer Experience



Employee survey on Chatbot Collaboration (3/9)

Employee perception of Chatbot based on pilot test [Which task should the Chatbot(Human) focus on?, online channel]



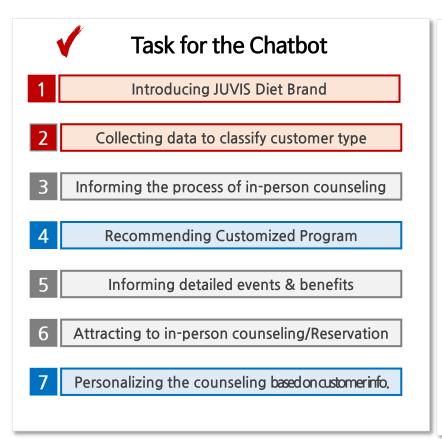
1	Task for the Employees
1	Recommending Customized Program
2	Personalizing the counseling based on customerinfo.
3	Managing to increase reserved customer's visit
4	Re-targeting the customer who didn't reserve
5	Attracting to in-person counseling/Reservation
6	Collecting data to classify customer type
7	Introducing JUVIS Diet Brand
8	Providing various customized content
9	Informing the process of in-person counseling
9	informing the process of in-person counseling

The Chatbot performs
mechanical & analytical tasks
while the employee handles
more intuitive & empathetic
ones

Source: Dr. Chan Lee's Research Team, Employee survey on Chatbot Collaboration (2021, 08, 10 ~ 2021, 08, 12)

Employee survey on Chatbot Collaboration (4/9)

[Which task should the Chatbot(Human) focus on?, in-person counseling]



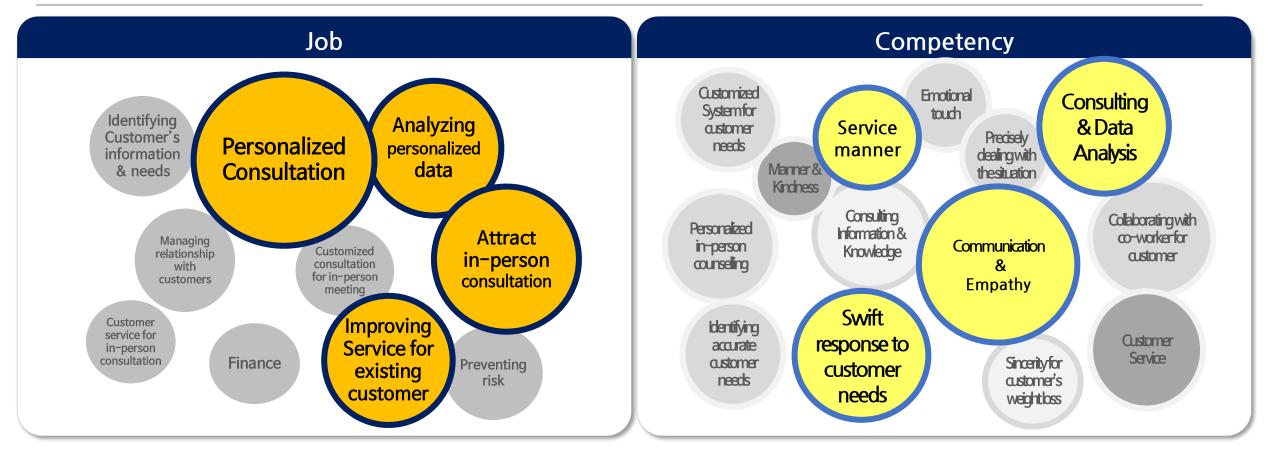


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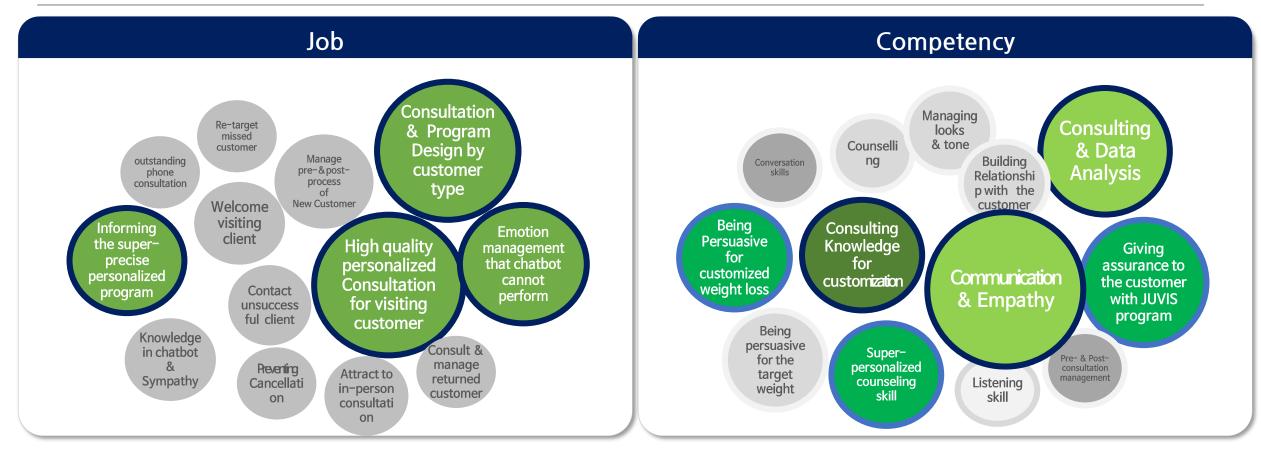
Employee survey on Chatbot Collaboration (8/9)

Q. If Chatbot execute a part of the existing tasks,
What job and competency should an employee focus on Upskilling?



Source: Dr. Chan Lee's Research Team, Employee survey on Chatbot Collaboration (2021, 08. 10 ~ 2021, 08. 12)

- Employee survey on Chatbot Collaboration (9/9)
- Q. If Chatbot execute a part of the existing tasks, What job and competency should an employee focus on Reskilling?

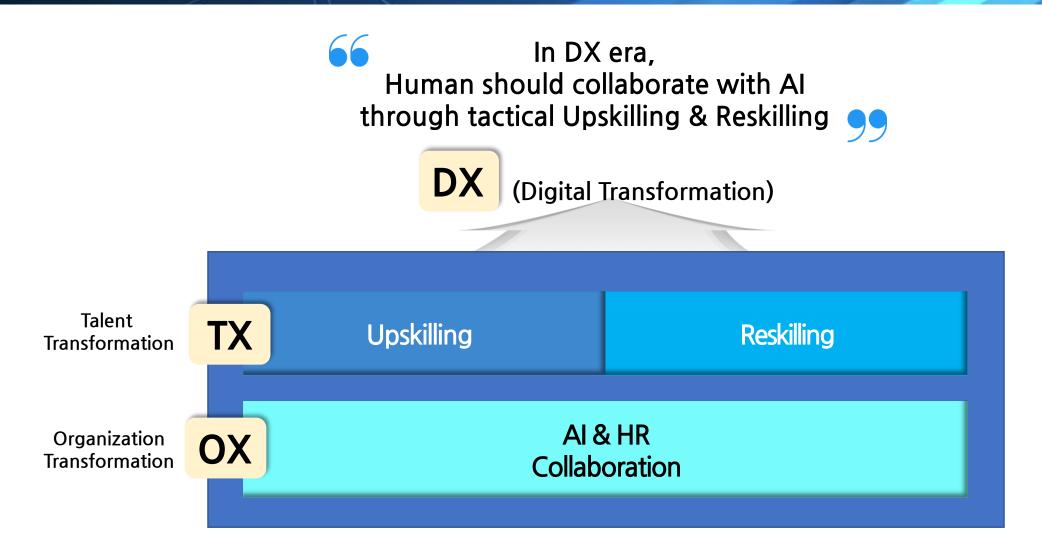


Source: Dr. Chan Lee's Research Team, Employee survey on Chatbot Collaboration (2021. 08. 10 ~ 2021. 08. 12)



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Helping the world's HRD excellence

Global No. 1 HRD research Team



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