

Consolidated Financial Result Briefing for the Six Months Ended September 30, 2021

CYBERDYNE Inc. November 12, 2021



CYBERDYNE, Inc.

Consolidated Financial Statement



Consolidated financial results - year-on-year comparison for the six months ended September 30, 2021

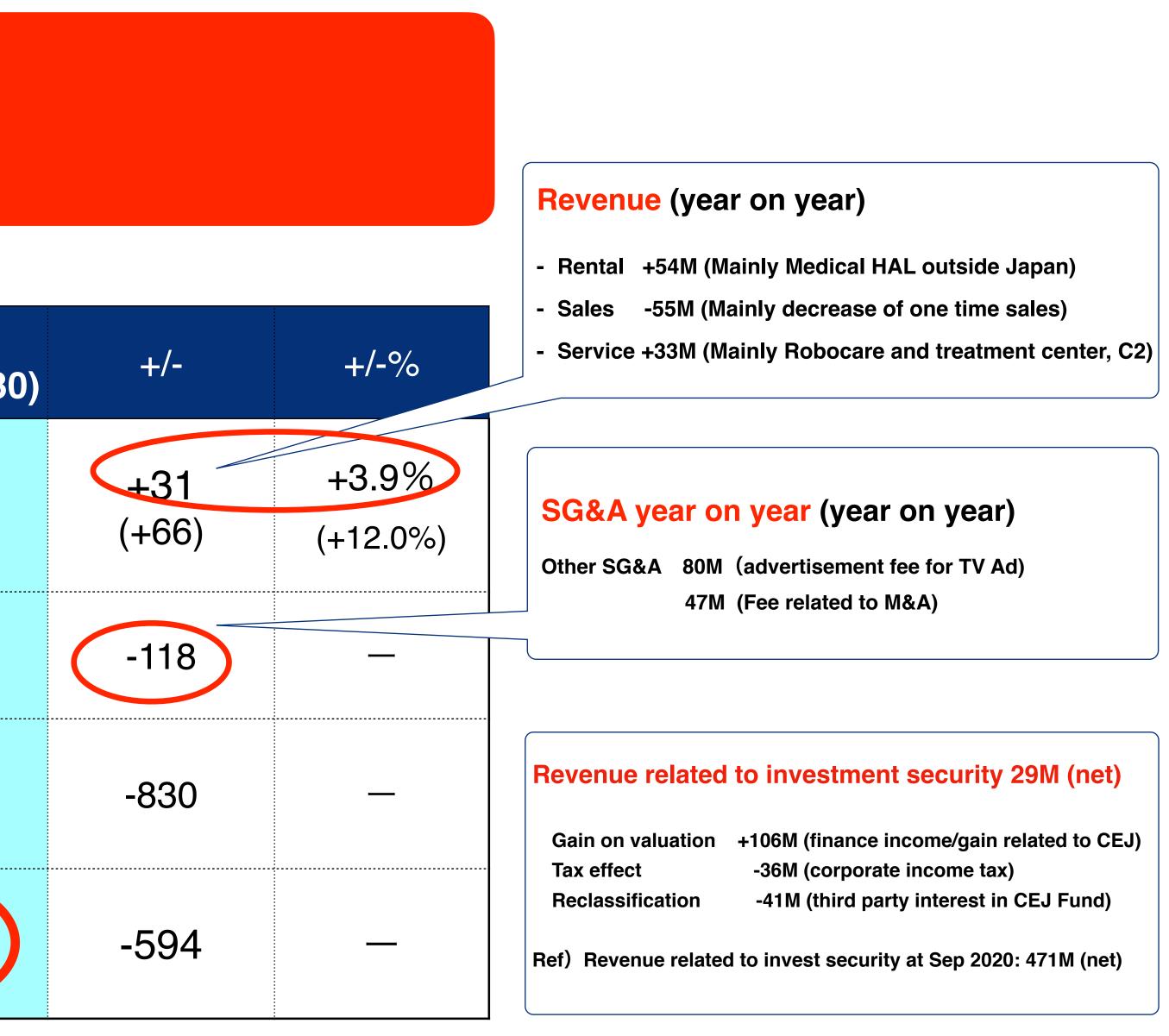
Revenue: ¥825 Million (+3.9%) Operating profit: ¥-480 Million

(Unit: Millions of Yen)

	FY2020 (Apr.1-Sep.30)	FY2021 (Apr.1-Sep.3
Revenue (Gross profit)	794 (553)	825 (619)
Operating profit	-362	-480
Profit before tax	442	-388
Profit attributable to owners of the parent	167	-427

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Quarterly results (accumulated result)

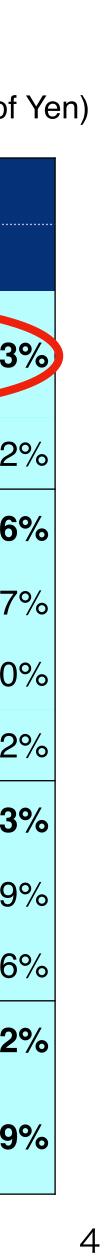
[Consolidated statement of profit or loss for the consulted 6 months ended September 30, 2021]

	FY2020	FY2021			Quarter o	Quarter on quarter		Year on year	
	Q2 (Jul.1-Sep.30)	Q1 (Apr.1-Jun.30)	Q2 (Jul.1-Sep.30)	Q1+Q2 (Apr.1-Sep.30)	+/-	+/- %	+/-	+/- %	
Revenue (year on year)	435	380 (+5.9%)	445 (+2.3%)	825 (+3.9%)	+65	+17.0%	+10	+2.39	
Cost of sales	134	103	103	206	+0	+0.0%	-31	-23.29	
Gross profit	301	277	342	619	+65	+23.3%	+40	+13.69	
R&D expenses	165	188	162	350	-25	-13.4%	-3	-1.7%	
Other SG&A	304	391	389	780	-3	-0.7%	+85	+28.0%	
Other income/expense	36	19	12	31	-7	+64.6%	-24	-66.2%	
Operating profit	-132	-283	-197	-480	+86	+30.4%	-65	-49.3%	
Finance income/expense	505	4	21	26	+16	+242.5%	-484	-95.99	
Other	135	13	53	66	+295	+208.9%	-82	-60.69	
Profit before tax	508	-265	-123	-388	+142	+53.6%	-631	-124.29	
Profit attributable to owner of the parent	296	-276	-151	-427	+126	+45.5%	-447	-150.99	

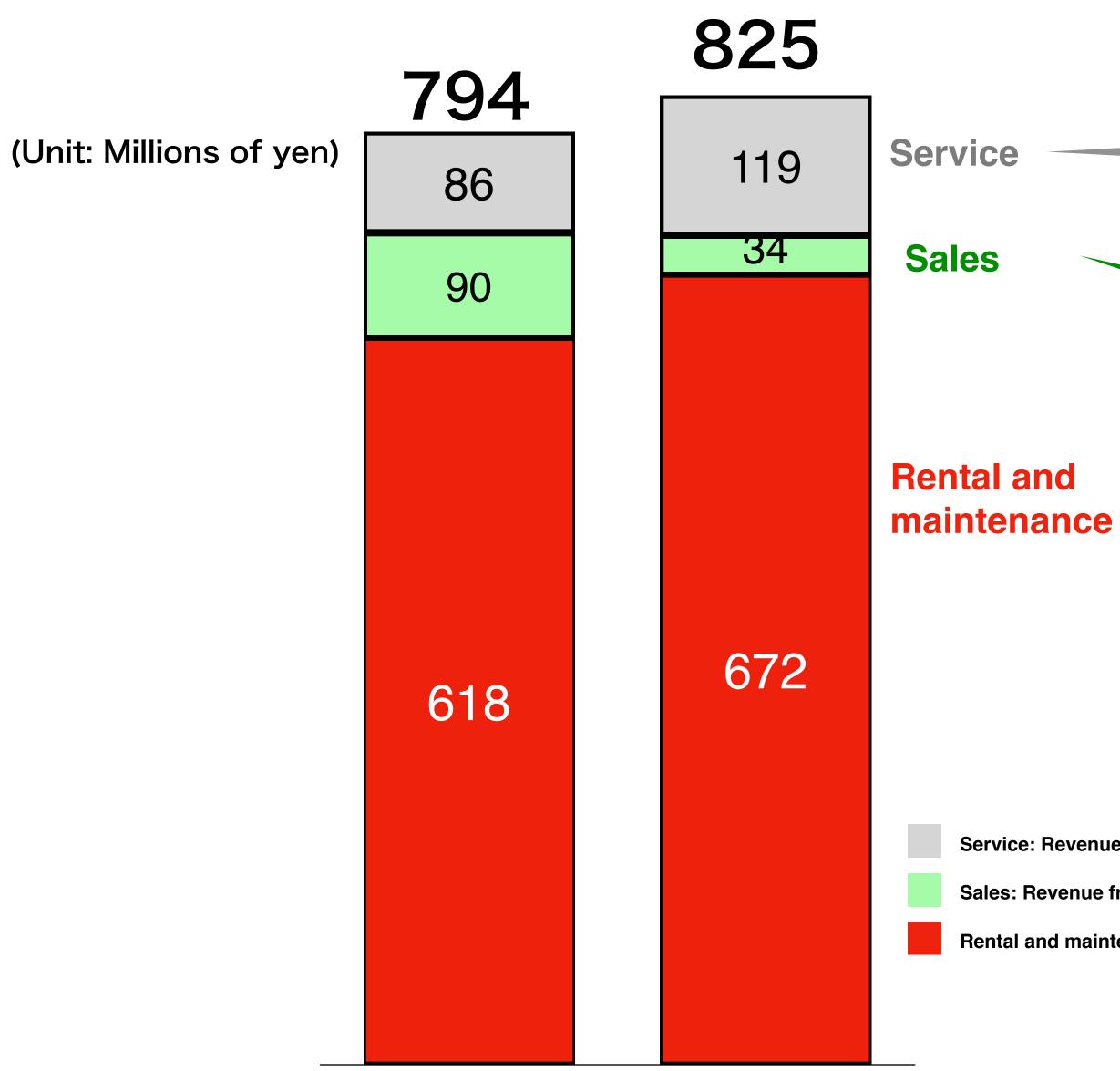
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(Unit: Millions of Yen)



Consolidated financial result by type of transaction and prospect



First half of FY2020 First half of FY2021

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Robocare Center & German Center (Recovering from effect of COVID) +20M **Effect of temporary sales in FY2020** -55M Medical HAL Lower Limb Type outside Japan +39M

Service: Revenue from service at a point of time

Sales: Revenue from sales at a point of time

Rental and maintenance: revenue over time

Prospect for FY2021 2,000~2,500M

*The prospect is based on existing products and approved diseases. Undetermined factors such as the expansion of new products and diseases are not factored in, and are not considered in the prospect





Revenue from rental and maintenance (by products)

Steady increase of HAL for Medical Use Lower Limb towards market outside Japan

				·····	
	Product	FY2020 Q1+Q2	FY2021 Q1+Q2	+/-	+/- %
	HAL Lower Limb Type (medical)	233	269	36	15%
For hospitals (to improve patient's physical function)	HAL Lower Limb Type (non-medical)	98	94	-4	-4%
	HAL Single Joint Type	63	60	-3	-5%
For Well-being	HAL Lumbar Type	120	131	11	9%
For Labor Support	HAL Lumbar Type	70	55	-15	-21%
Autonome (disinfection/cle	ous navigation robot eaning, transportation etc.)	25	27	2	8%
	Other		37	25	208%
	Total	618	672	54	9%

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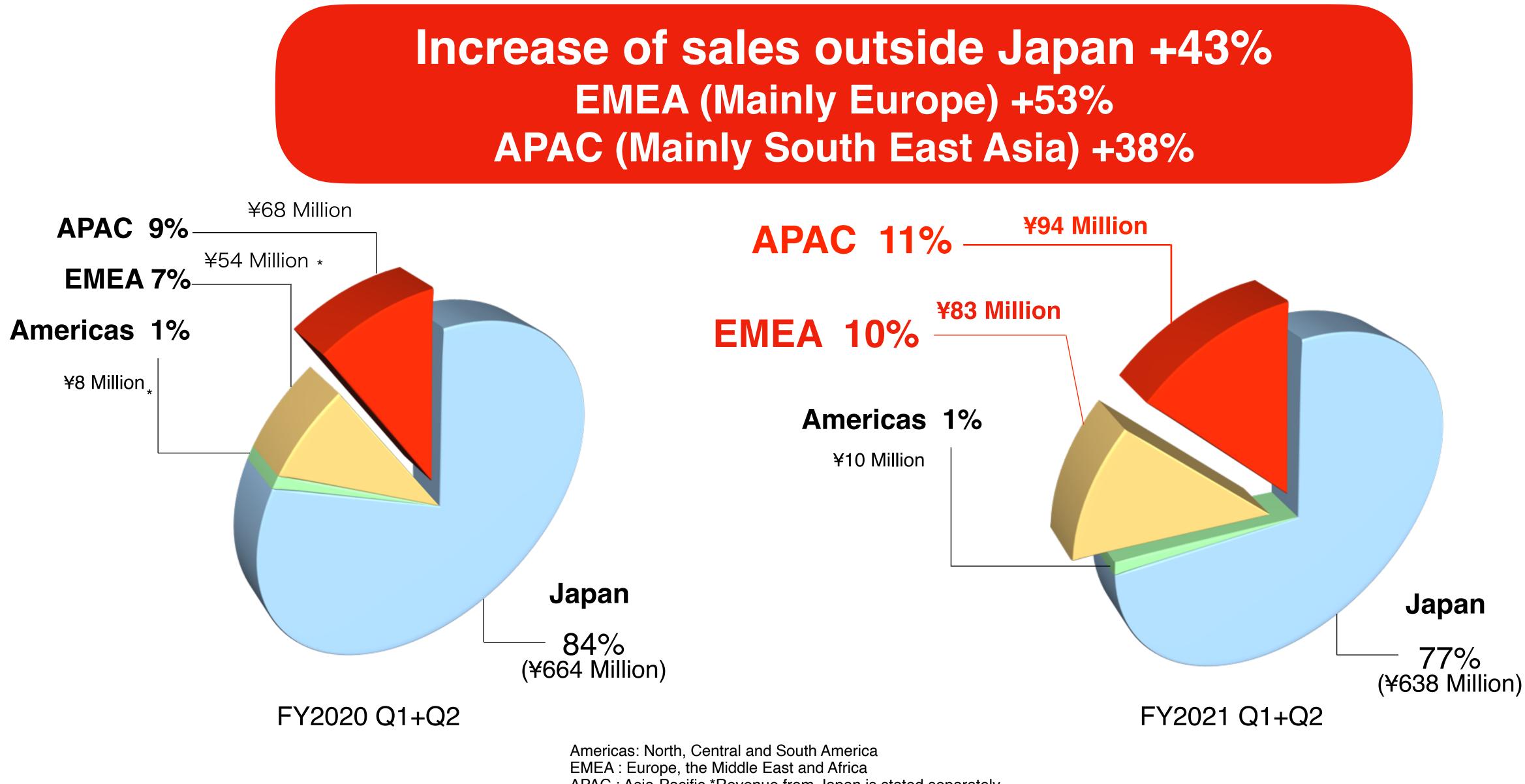


(millions of yen)





Consolidated financial results - year-on-year comparison by geographical regions



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APAC : Asia-Pacific *Revenue from Japan is stated separately



Ref) by geographical regions and type of transaction

FY2021 Q1+Q2 (FY2020 Q1+Q2)	Rental and maintenance	Sales	Service	Total
Japan	526	33	79	638
	(523)	(74)	(66)	(664)
Americas	9	0	0	10
	(8)	(0)	(0)	(8)
EMEA	44	0	39	83
	(35)	(-)	(19)	(54)
APAC	93	1	0	94
	(52)	(15)	(1)	(68)
Total	672	34	119	825
	(618)	(90)	(86)	(794)

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(Unit: Millions of yen)





Ref) Number of operating units

	End of FY2017	End of FY2018	End of FY2019	End of FY2020	End of Q2 FY2021
HAL Lower Limb (Medical)	257	291	310	351	361
HAL Lower Limby (Non-medical)	398	357	357	342	334
HAL Single Joint	234	252	300	391	433
HAL Lumbar (Well-being)	847	919	951	1,074	1,142
HAL Lumbar (Labor Support)	372	572	624	459	456
Cleaning/disinfection/ Transportation Robot	27	44	75	141	143
Total	2,135	2,435	2,617	2,758	2,869

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(単位:台)







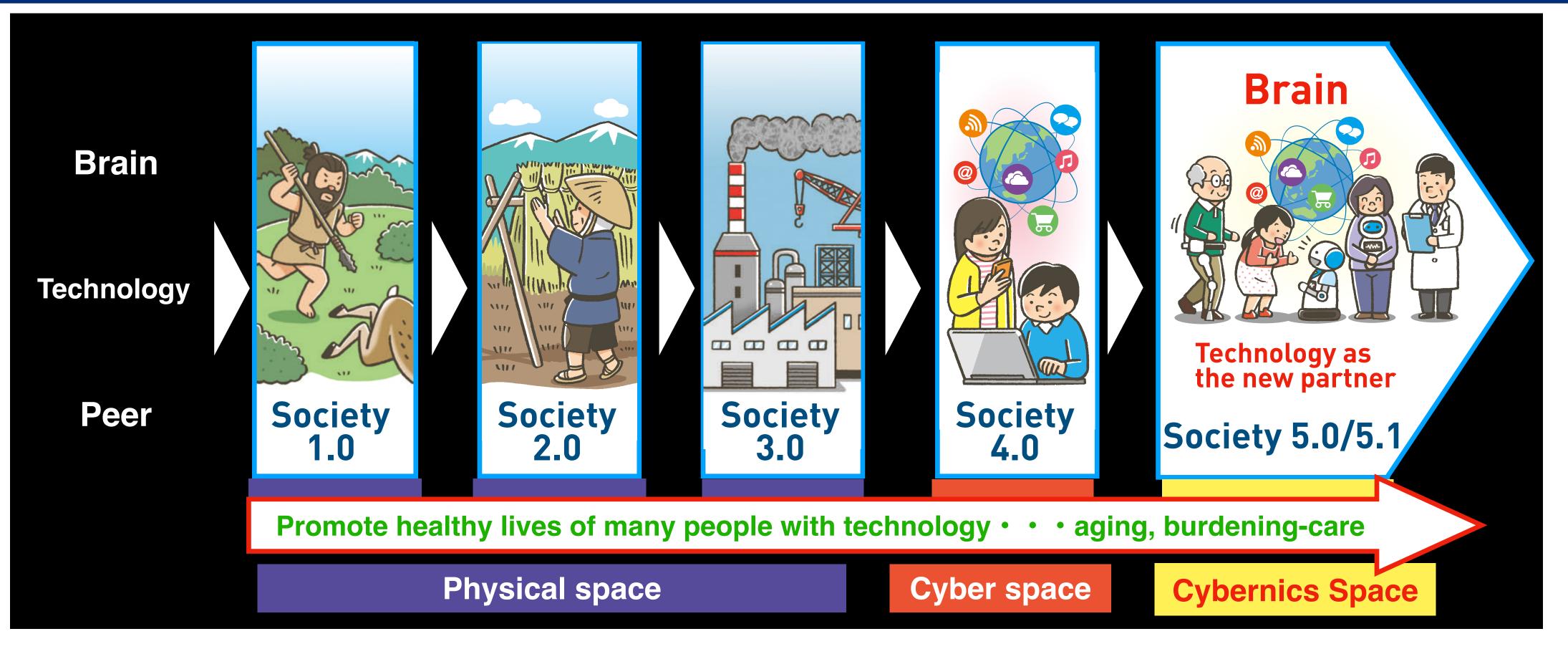
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Business strategy



Realization of Techno-peer Support Society, Where human and technology lives together and supports each other

Promote innovation that leaves no one behind



"Cybernics" that fuses "Human" + "Cyber/Physical Space"

Create "Cybernics Industry", a new industry that follows Robot and IT Industry

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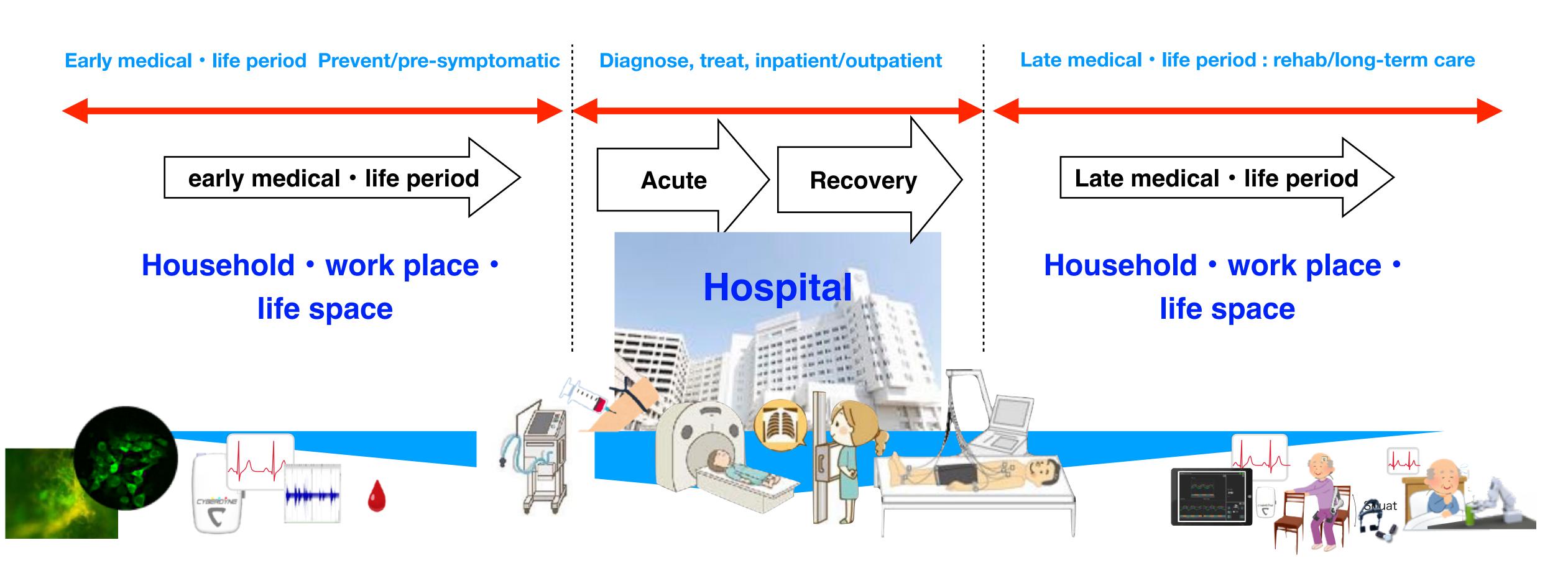


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CYBERDYNE's next step : Future of medical healthcare and healthy life Prevention/pre-symptomatic, medicine, rehabilitation/long-term care

Medical/Healthcare/Healthy life



Close coordination, fusion between medical and non-medical field to evolve into comprehensive initiatives





C-Startup

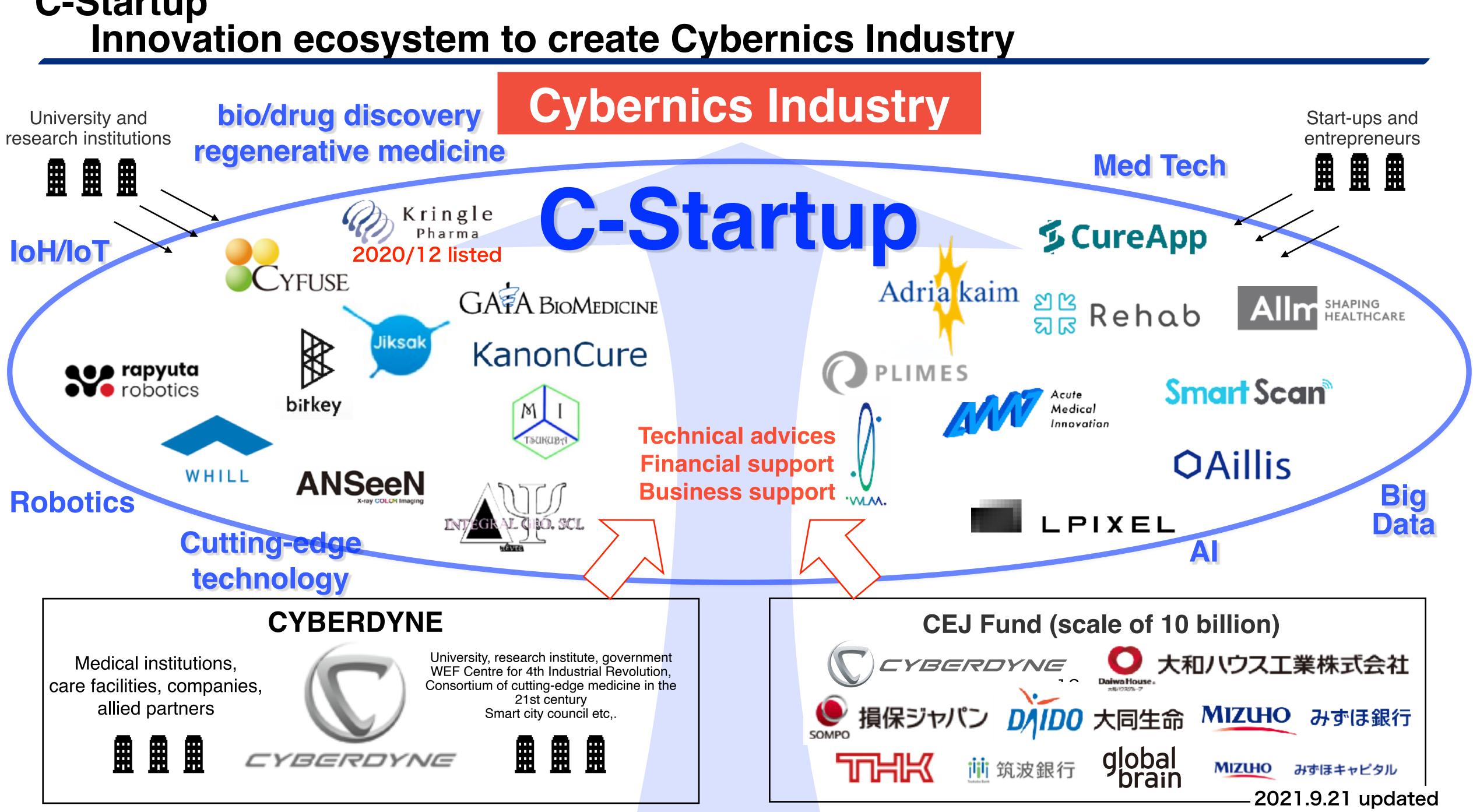
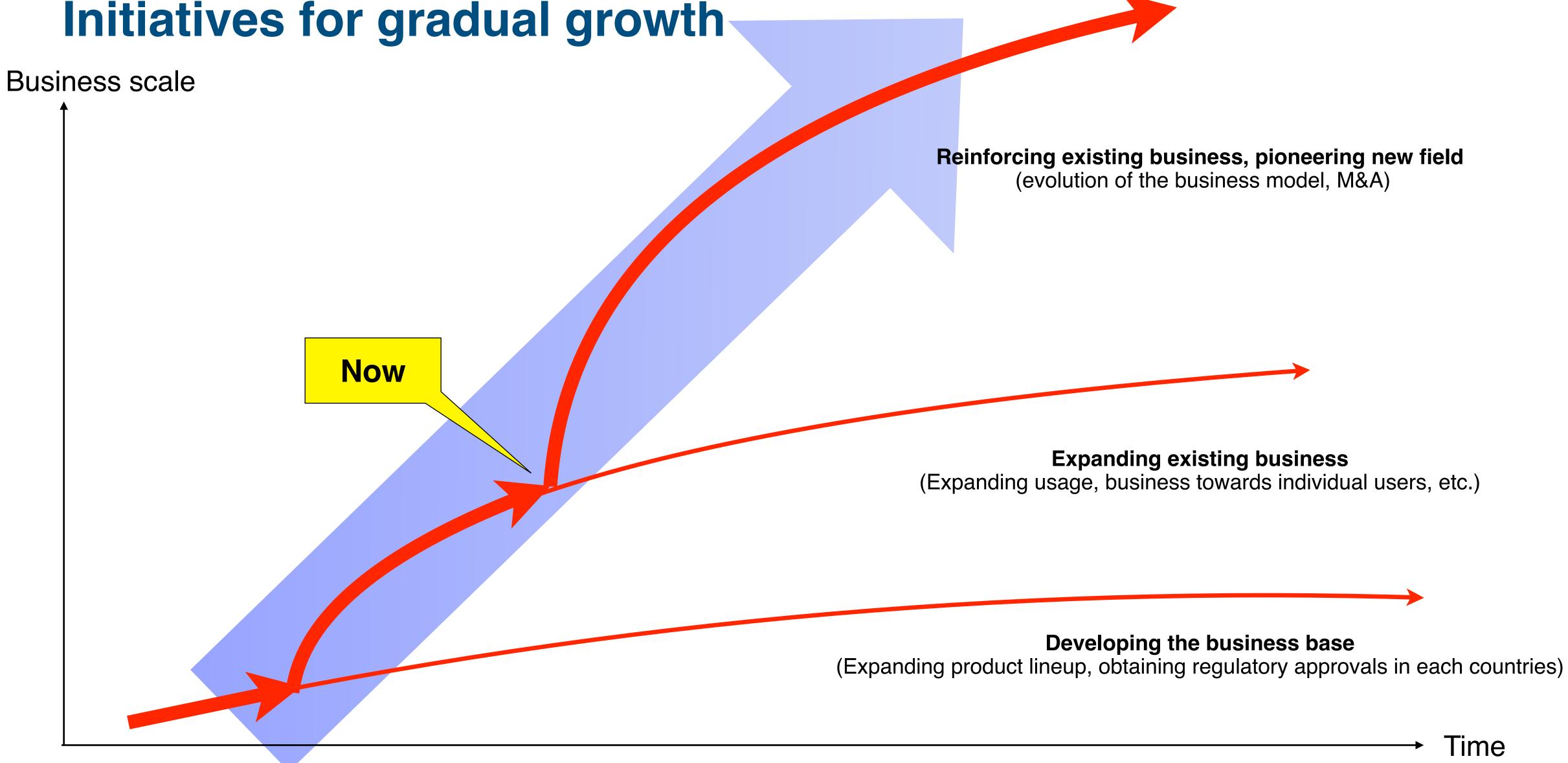


Image of growth scenario for the entire group

Initiatives for gradual growth



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"JUKUSUI", a Sleeping support app that visualizes sleep

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M&A (1) : Developer/operator of healthcare App - C2, Inc

Identifies risks of Sleep Apnea Syndrome at early stages

Smartphone app "JUKUSUI"



Active user 300 thousand per month





Check sleeping condition

Easy and routine screening for health management of drivers, etc.

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small vital sensor "Cyvis"



High-precision screening tests (Measures breathing during sleep)



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M&A(2) : Acquisition of RISE, physical therapy center in US

Entering medical service business in the US

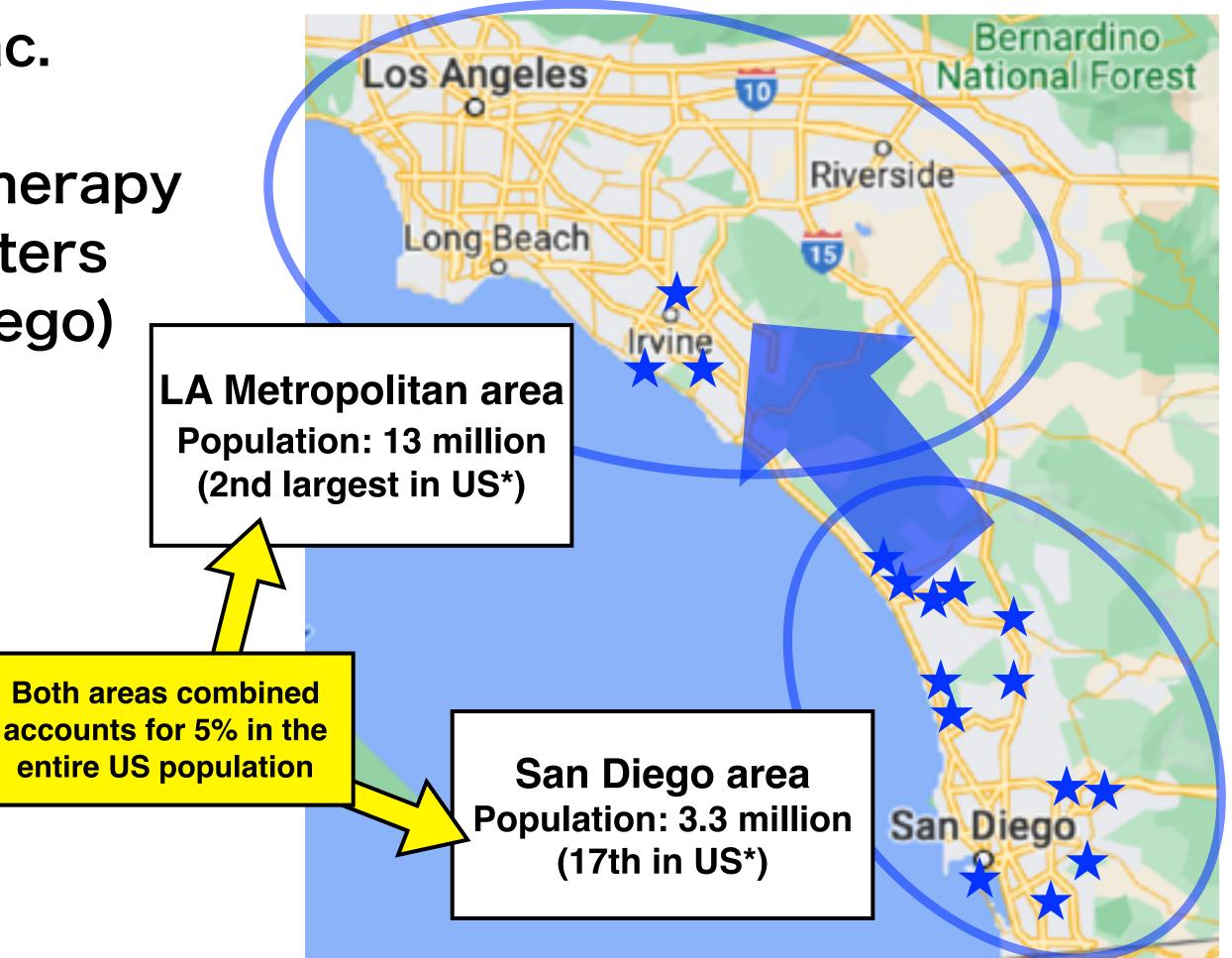
Name : RISE Physical Therapy Inc. Established : 2014 **Business : Outpatient physical therapy** No. of facilities : 16 medical centers (Ranked third in San Diego)



Based on San Diego, the group is expanding facilities to LA (2nd biggest metropolitan area in the U.S)

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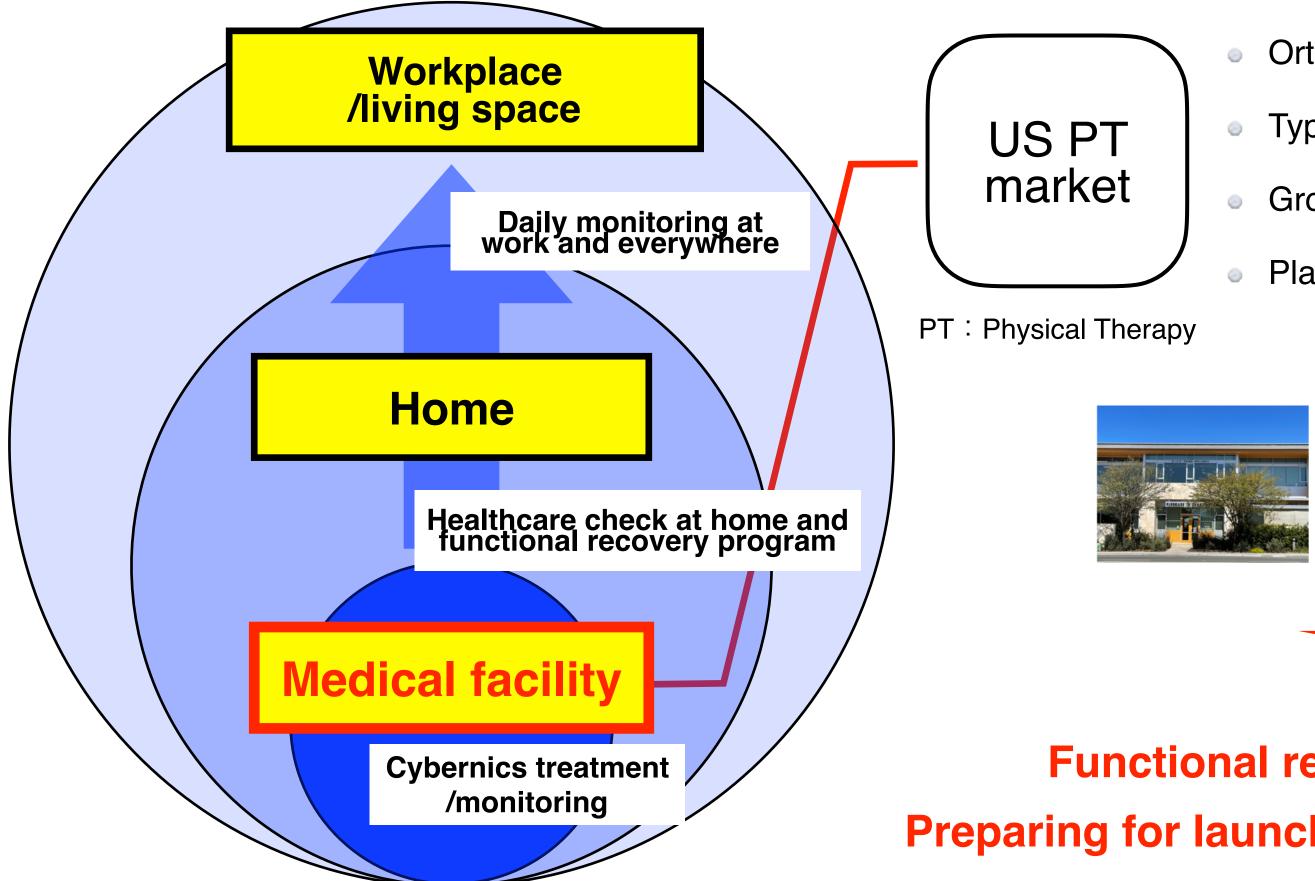
* https://en.wikipedia.org/wiki/List_of_core-based_statistical_areas





M&A(2) : Acquisition of RISE, physical therapy center in US

Formulating platform that could reach individuals directly



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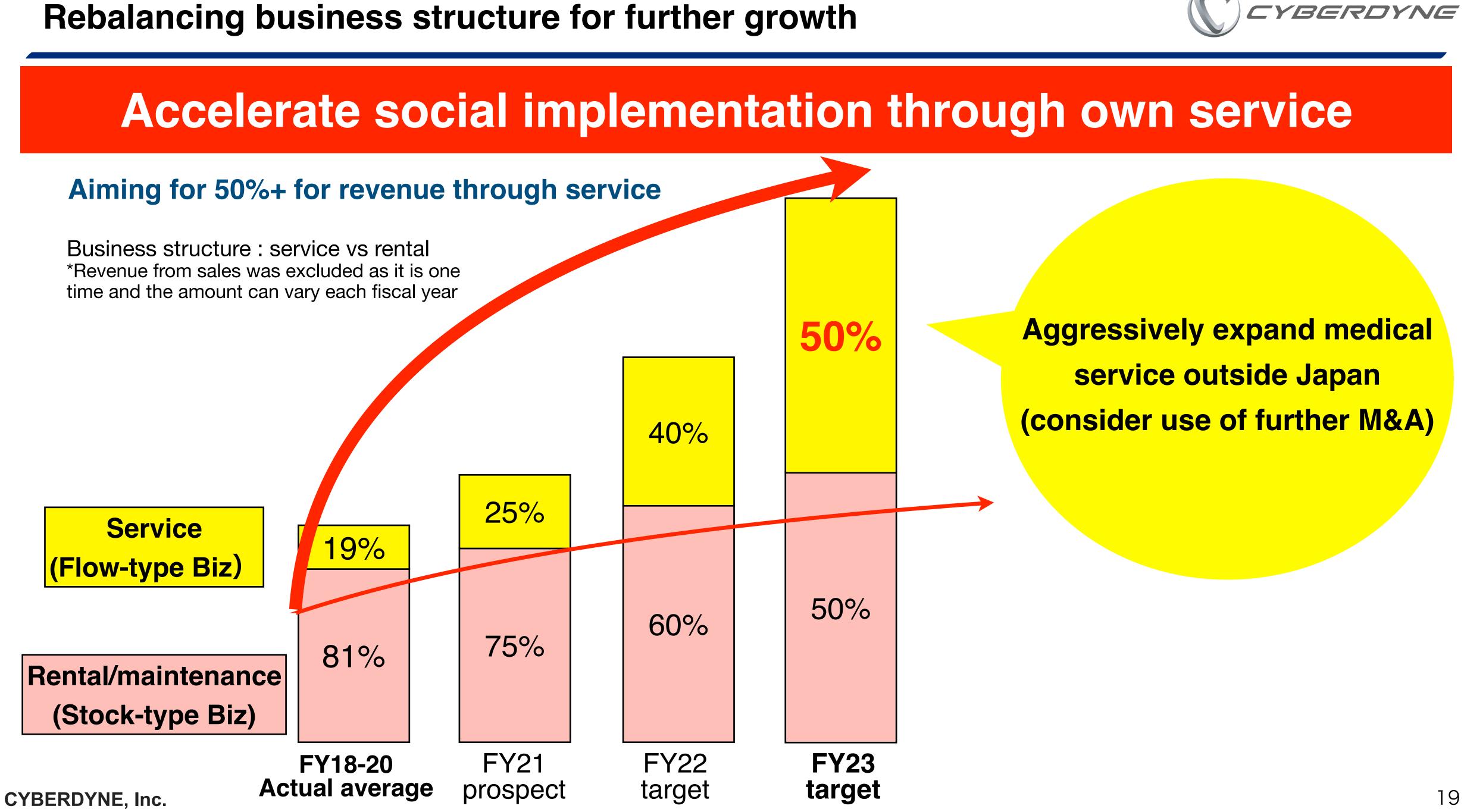
- Orthopedic+brain-nerve diseases (target of HAL)
- Typically done manually by PT (can differentiate with HAL)
- Growing market due to aging population (Annually 33.1 billion=3.7 trillion yen)*
- Players are dispersed (potential for further growth through M&A)

■ RISE Physical Therapy Inc. ■ First facility in the west coast area

Functional recovery at home and daily healthcare monitoring **Preparing for launch of service towards individuals (consider further M&A)**



Accelerate social implementation through own service







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Medical Field



Ref) Potential addressable market for Medical HAL



(**) The number of neuromuscular patients in USA and EU were calculated based on 0.05M patients in Japan (***)In addition the Group is working together with regenerative medicine and pharmaceuticals on research on the treatment of Parkinson's Disease 1.9M patient

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oinal Cord Injury	Neuromuscular diseases	Market Size
Planning clinical trial 0.2	Medical device approval + Public health insurance	1.5 Million
Medical device approval	Medical device approval	7.3 Million
Medical device approval	Medical device approval	2.3 Million
0.8 Million	0.4 Million (**)	11.1 Million

(Ref) New Energy and Industrial Technology Development Organization (2013), Ministry of Health, Labour and Welfare of Japan (2011), Translational Research Informatics Center (2014), American Heart Association (2010), National Spinal Cord Injury Statistical Center (2013), The Patient Education Institute, Inc. (2010). Parkinson's Disease Foundation (2010)

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Status of approvals by diseases and countries

Progress in each region

[HAL for Medical Use Lower Limb Type]

		Stroke	Spinal Cord Injury	Neuromuscular disease*
Japan USA		Planning submission of application for medical device approval	Planning clinical trial	Approved
		Approved Approved		Approved
	EU	Approved	Approved	Approved
EMEA	Saudi Arabia	Approved	Approved	Approved
	Turkey	Approved	Approved	Approved
	Malaysia	Approved	Approved	Approved
	Indonesia	Approved	Approved	Approved
	Thailand	Approved	Approved	Approved
APAC	Taiwan	(application in progress)	Approved	(application in progress)
	Singapore	Approved	Approved	Approved
	Australia	Approved	Approved	Approved

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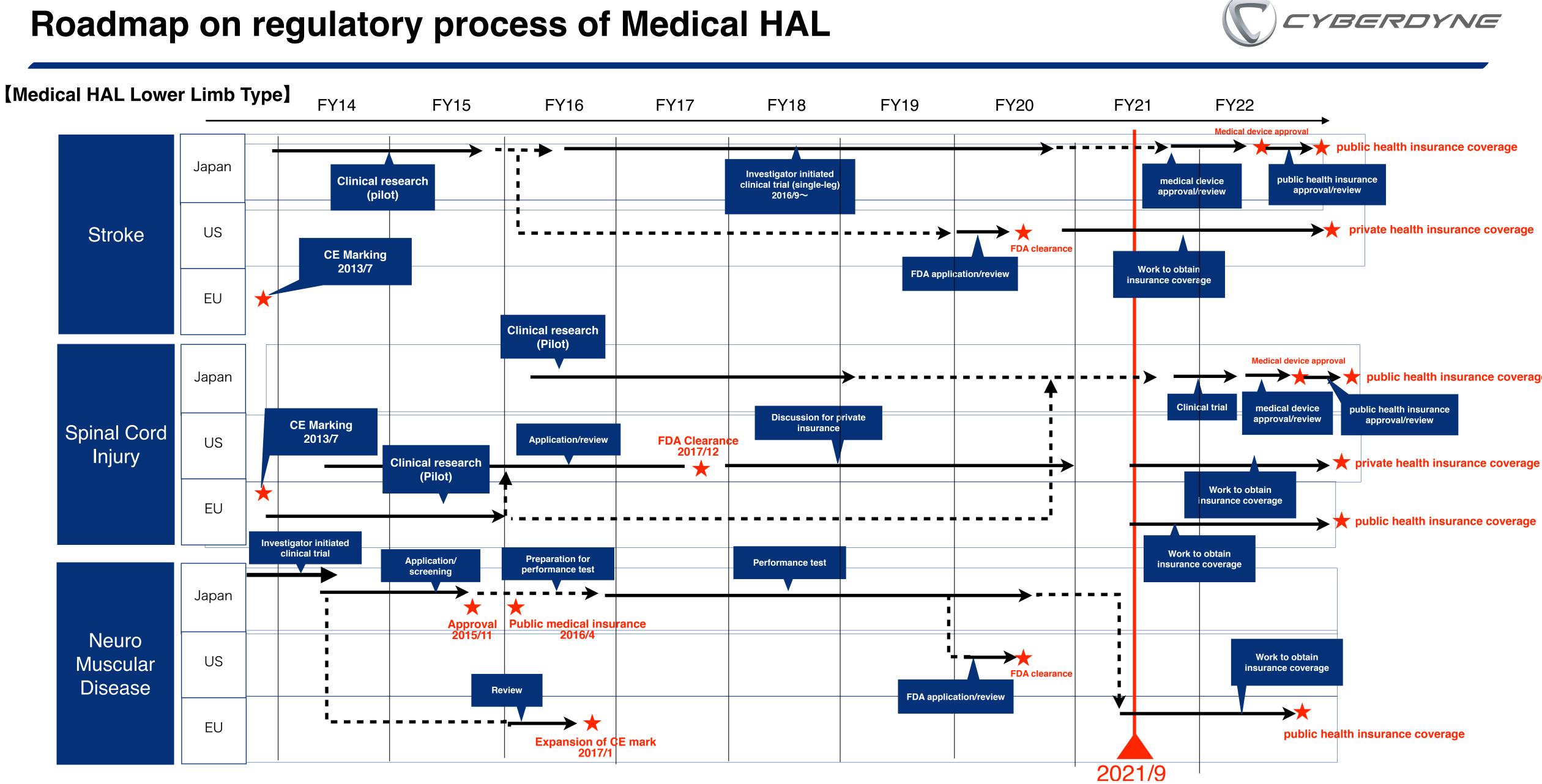
*Spinal muscular atrophy, spinal and bulbar muscular atrophy, amyotrophic lateral sclerosis, Charcot-Marie-Tooth disease, distal muscular dystrophy, inclusion body myositis, congenital myopathy, muscular dystrophy



As of September 30, 2021







Other target diseases : Spastic Paraplegia including HTLV-1 Associated Myelopathy (applied for medical device approval), cerebral palsy (planning to start clinical trial in 2021, parkinsons disease (planning clinical trial), multiple sclerosis (pilot study underway)

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* Chart based on information available at this point 23





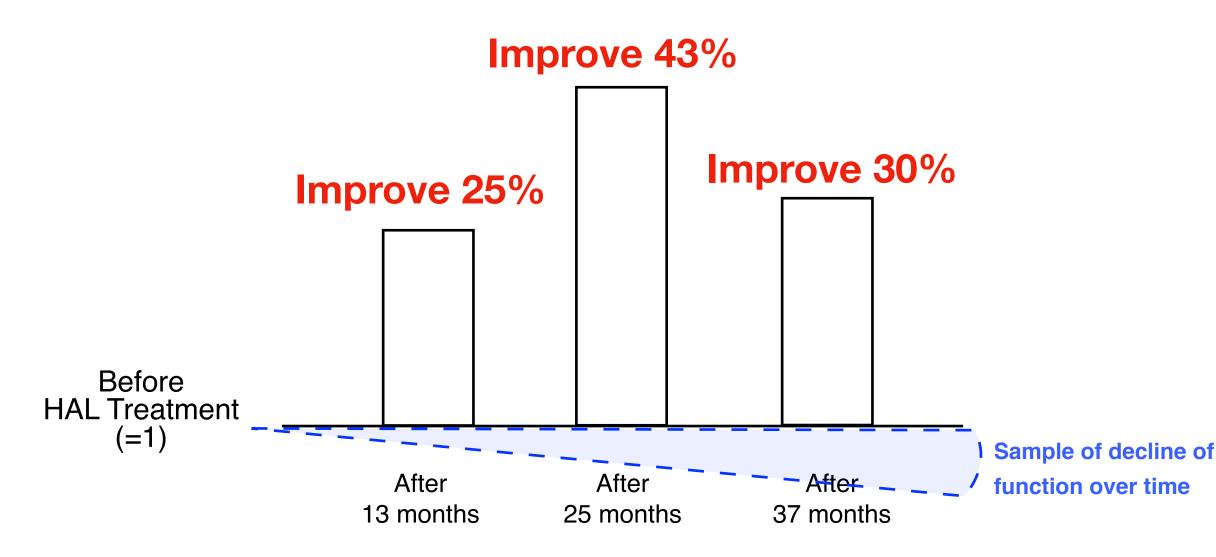
[Neuromuscular disease] Outline and result of performance test

Performance test suggests high efficacy and safety



Ambulatory function remained above 0 level at the beginning of the treatment over long duration

Distance covered in 2 min walk (Rate of change from the level before HAL Treatment)



*Due to its progressive nature, typically ambulatory function will decline over time

Target disease: Spinal muscular atrophy, spinal and bulbar muscular atrophy, amyotrophic lateral sclerosis, Charcot-Marie-Tooth disease, distal muscular dystrophy, inclusion body myositis, congenital myopathy, muscular dystrophy

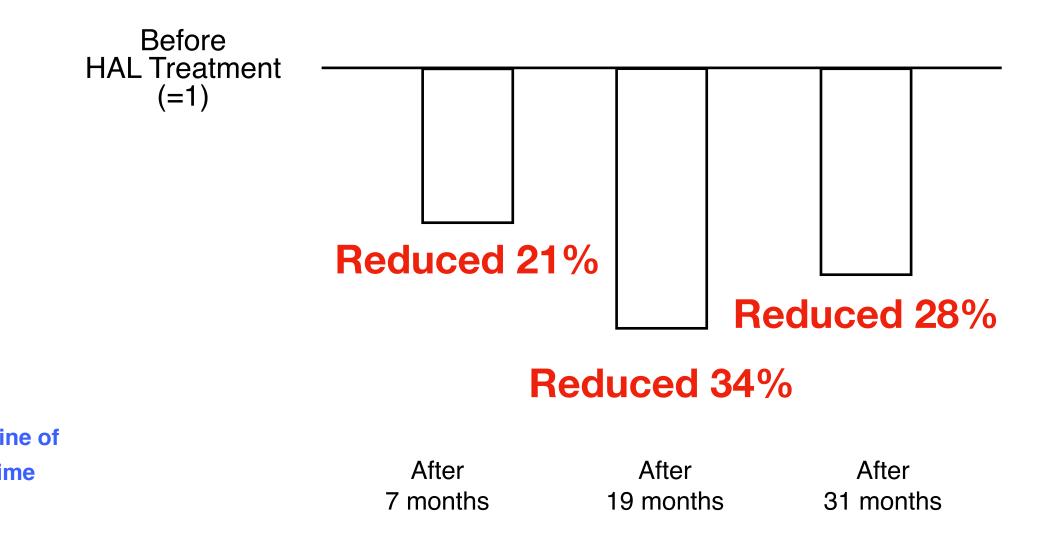
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Reduced damage to the muscle tissue

*Test to identify damage to the muscle

CK Blood Level* (Rate of change from the level before HAL Treatment)



Safety

*Conventional exercise therapy will accelerate the damage on the muscle tissue





[Medical HAL Single-leg model] Outline and result of clinical trial

Significant difference was observed for comparison of 6 min walking distance

- 6 min walking distance (important secondary endpoint: recommended by PMDA) : superiority of HAL group was suggested. The dispersion is less likely to influence the result and it achieved p<0.022
- and the result did to achieve p<0.05

As a result of the analysis based on the data of 49 patients, excluding 3 patients who had major accidents in their daily life during the trial period, the amount of change was larger in the HAL group than in the control group, and the difference was statistically significant.

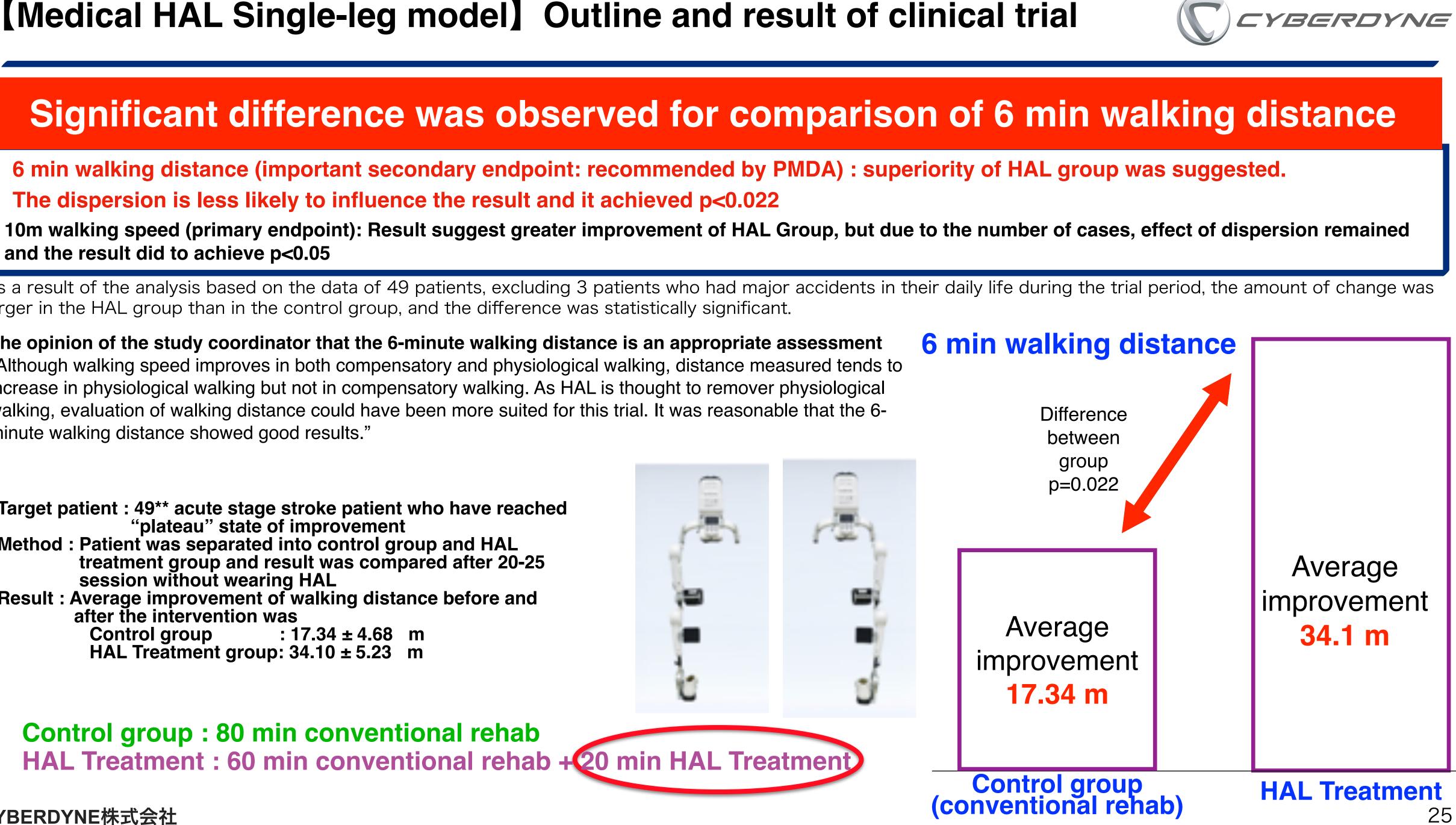
The opinion of the study coordinator that the 6-minute walking distance is an appropriate assessment "Although walking speed improves in both compensatory and physiological walking, distance measured tends to increase in physiological walking but not in compensatory walking. As HAL is thought to remover physiological walking, evaluation of walking distance could have been more suited for this trial. It was reasonable that the 6minute walking distance showed good results."

Target patient : 49** acute stage stroke patient who have reached "plateau" state of improvement Method : Patient was separated into control group and HAL treatment group and result was compared after 20-25 session without wearing HAL **Result : Average improvement of walking distance before and** after the intervention was : 17.34 ± 4.68 m Control group HAL Treatment group: 34.10 ± 5.23 m

Control group : 80 min conventional rehab HAL Treatment : 60 min conventional rehab +20 min HAL Treatment

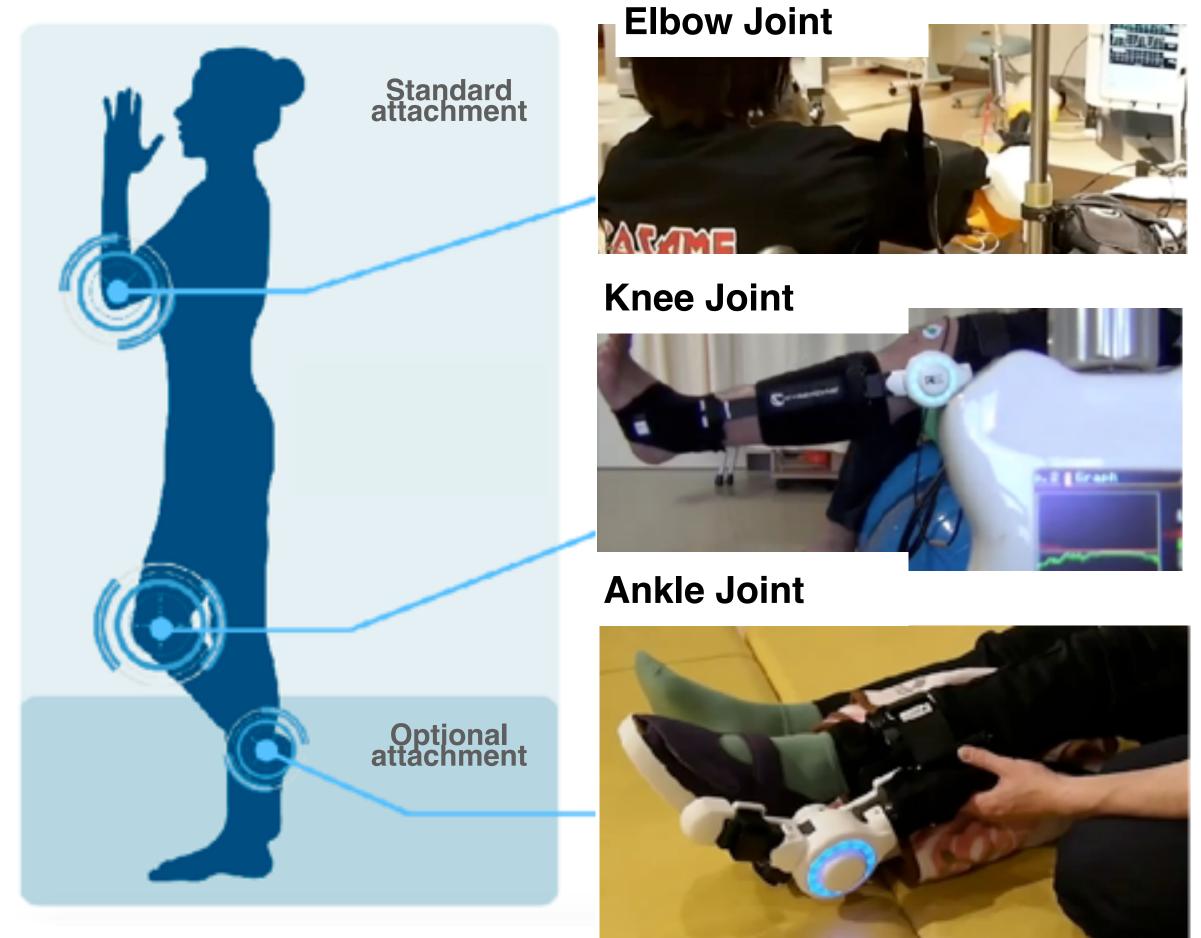
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Medical device approval for HAL Single Joint Type

In addition to Japan* and Europe, medical device approval has been completed in the U.S., Australia, Thailand, Malaysia, and Turkey



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*Medical device approval as a device for increasing amount of exercises

Feature

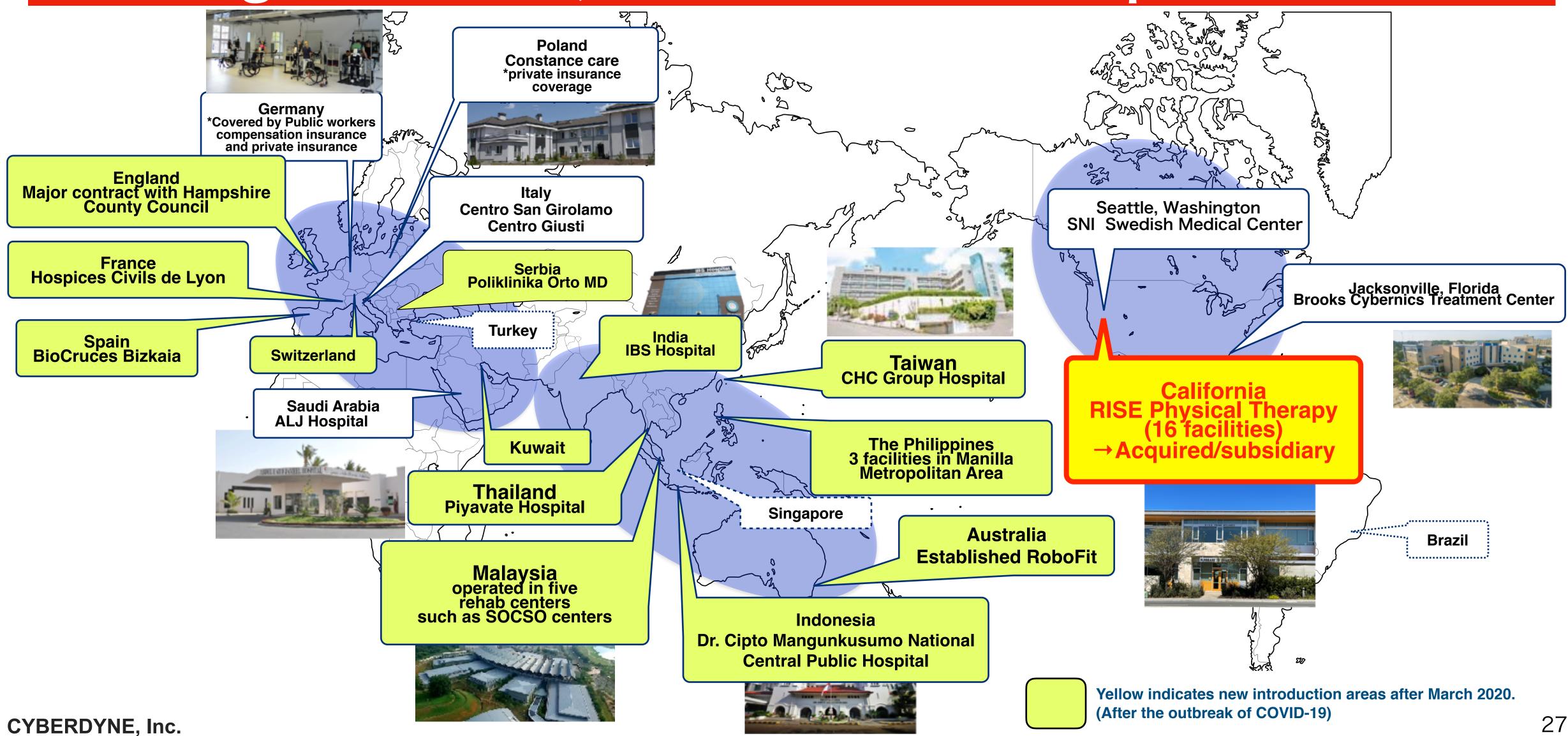
- Light weight and compact design
- Intensive treatment of different joints
- Suited for patient with various condition (can treat while laying, seated or standing)
- Can make early intervention when patient still has to stay on bed





Oversea expansion of HAL

Progress in US, EU and APAC despite COVID







France

Installed to large university hospital

Hospices Civils de Lyon

The Université Hospital of Lyon has a staff of 24,000, of which 5,000 are doctors and over 11,000 are nurses. It is known as one of the largest hospitals in France, integrating 14 facilities, including three general facilities offering a wide range of services such as emergency, internal medicine, and surgery, seven specialized facilities, and four facilities for the elderly.

https://www.chu-lyon.fr/about-us



Exterior image of the hospital

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Photo from HAL safety operation training by staff members



Spain

Installed to the highest ranked hospital in the Basque

BioCruces Bizkaia@Gurutzetako Unibertsitate Ospitalea

BioCruces Bizkaia is the Health Research Institute of Cruces University Hospital, the biggest hospital in the Basque Country, with a consolidated history of teaching and research. Its mission is to promote, unite and support research groups within the Institute to develop top-level translational research and promote effective innovation and collaboration with other entities. All this is to provide new tools, practices, and knowledge to improve health care, population health, wealth creation, and economic development. https://www.bbk.eus/en/projects/biocruces/



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Exterior image of Cruces University Hospital (from its website)





Photo from the HAL safety operation training by staff members





Spreading Cybernics Treatment in Malaysia

Used in six facilities

South (Melaka) **Central (2 facilities in Kuala Lumpur)** East (Kuala Terengganu) North (Kota Bharu) West (Penang)

76 units of HAL

Lower Limb Type 23 Units Single Joint Type 30 Units Lumbar Type 23 Units

Due to effect of COVID-19 20 units of HAL is waiting for delivery

*SOCSO (Malaysian Public Social Security Organization)

SOCSO has four functions: disability pension, survivor's pension, medical coverage and occupational injury coverage, and is compulsory for Malaysian and foreign workers in Malaysia to join the program. It provides medical compensation, disability compensation, funeral benefits, child support and nursing care benefits for illness or injury that occurs while commuting to and from work.

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Public social security system allows treatment with minimal financial burden from the patient







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Indonesia

Installed to the largest public hospital in Indonesia

- **Obtained medical device approval for HAL Lower Limb Type on April 2020**
- 2)



Photo of the hospital (cited from the website of the hospital)

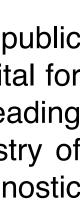
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Exported HAL to Dr. Cipto Mangunkusumo National Central Public Hospital on March 2021

Dr. Cipto Mangunkusumo National Central Public Hospital

The hospital is known to be one of the largest national public hospitals in Indonesia. The hospital serves as a teaching hospital for the University of Indonesia, and it is said to be the nation's leading teaching hospital. The hospital is run by the Indonesian Ministry of Health, making the hospital well-resourced with advanced diagnostic and therapeutic medical technology.



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The Philippines

8 HALs in two hospitals in Manila Metropolitan area

- 1) The Ospital ng Maynilla Medical Center (June 2021)
- 2) The Medical City South Luzon (October 2021)





The Ospital ng Maynilla Medical Center



Due to effect of COVID-19, seven units of HAL is waiting for delivery

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The Medical City South Luzon

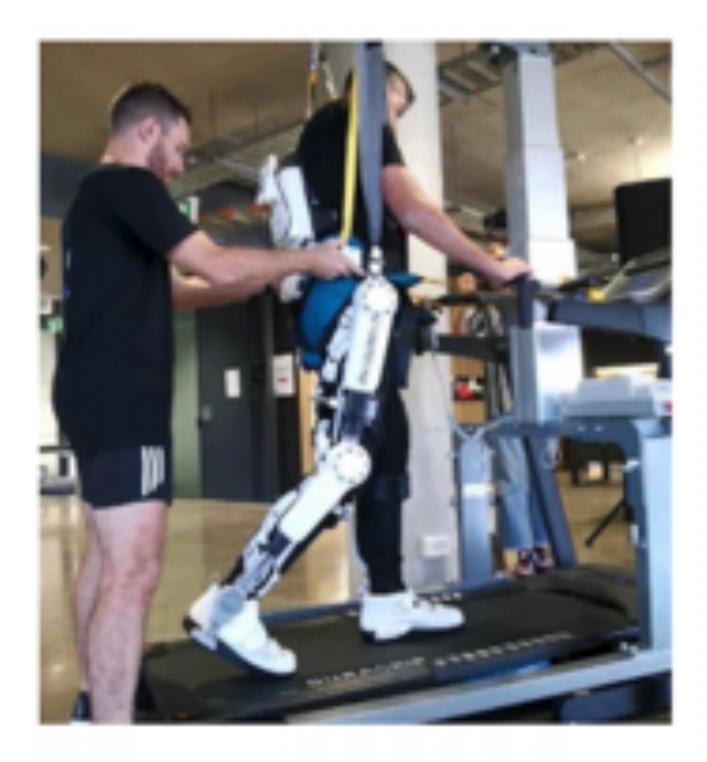




Australia

Robot opens as a facility for Cybernics Treatment on May 2021

1) Obtained medical device approval for HAL Lower Limb Type on October 2020 2) RoboFit opened as a facility for Cybernics Treatment on May 2021



Demonstration at the Launch event



Husband-and-wife duo Maryanne Harris and Daniel Hillyer

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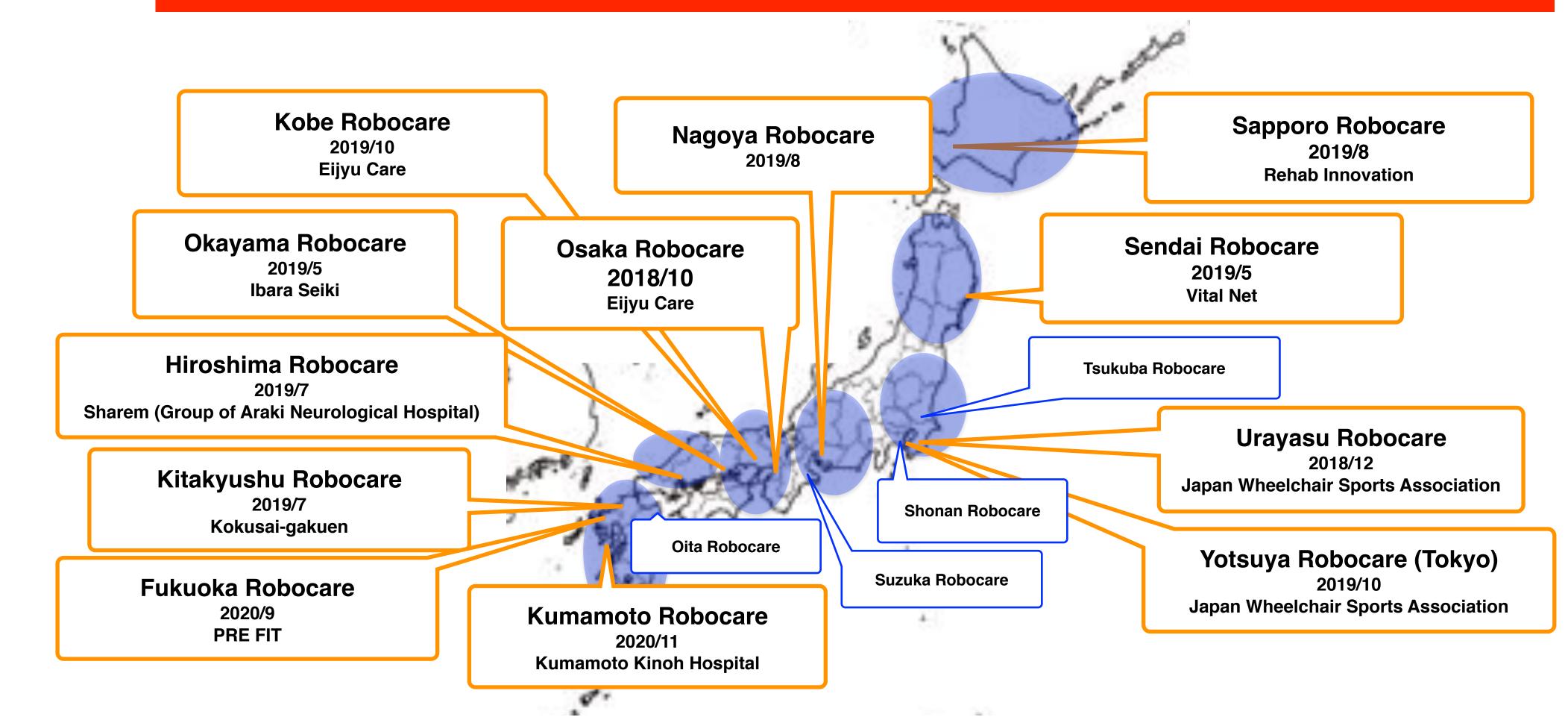
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for care givers and care receivers



Expansion of Robocare Center as a facility for individual customers

Spreading Neuro HALFIT in Japan to 16 centers



Planning to open 2~3 facilities in addition to existing 16 within this fiscal year

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HAL Lumbar Type: Program to promote independence

Major improvement of ambulatory function, standing/sitting towards seniors

Evaluation result of HAL program (2 weekly sessions x 20 times) to prevent the necessity of care (n=20 average age:72.2±9.88)

Evaluated item	Before HAL (Mean±SD)	After HAL (Mean±SD)	Rate of improvement	P Value
10m walking speed (m/sec)	0.72±0.33	0.97±0.50	34.7%	< 0.001***
Stride length during 10m walk test (m)	0.83±0.27	0.98±0.33	18.1%	< 0.001***
TUG (sec) *ambulatory function, balance during motion, agility	18.63±15.41	15.91±14.38	14.6%	< 0.001***
CS-30 (times) *Standing up/down for 30 seconds from a chair	10.25±6.13	14.75±8.43	43.9%	< 0.001***
BBS *Evaluates the balance function	46.60±7.80	48.90±8.09	4.9%	< 0.001***
standing on one leg with one's eyes open(sec) *evaluates muscle level in the legs and balancing	13.11±27.37	16.77±27.63	27.9%	< 0.05*
2step test *evaluates stride (leg muscle, balance, flexibility)	0.74±0.40	0.84±0.44	13.5%	< 0.001***
Check for locomotive syndrome *Checks for indication of declines in bones, joints and muscles, etc.	4.20±1.47	3.55±1.79	15.5%	< 0.05*
FRT (Upper limb anterior reach. cm) *evaluates balance when standing	21.29±6.97	26.57±5.66	24.8%	<0.001***
Long seat forward bending(cm) *evaluates balance when sitting	23.4±8.5	26.95±8.5	15.2%	<0.01**

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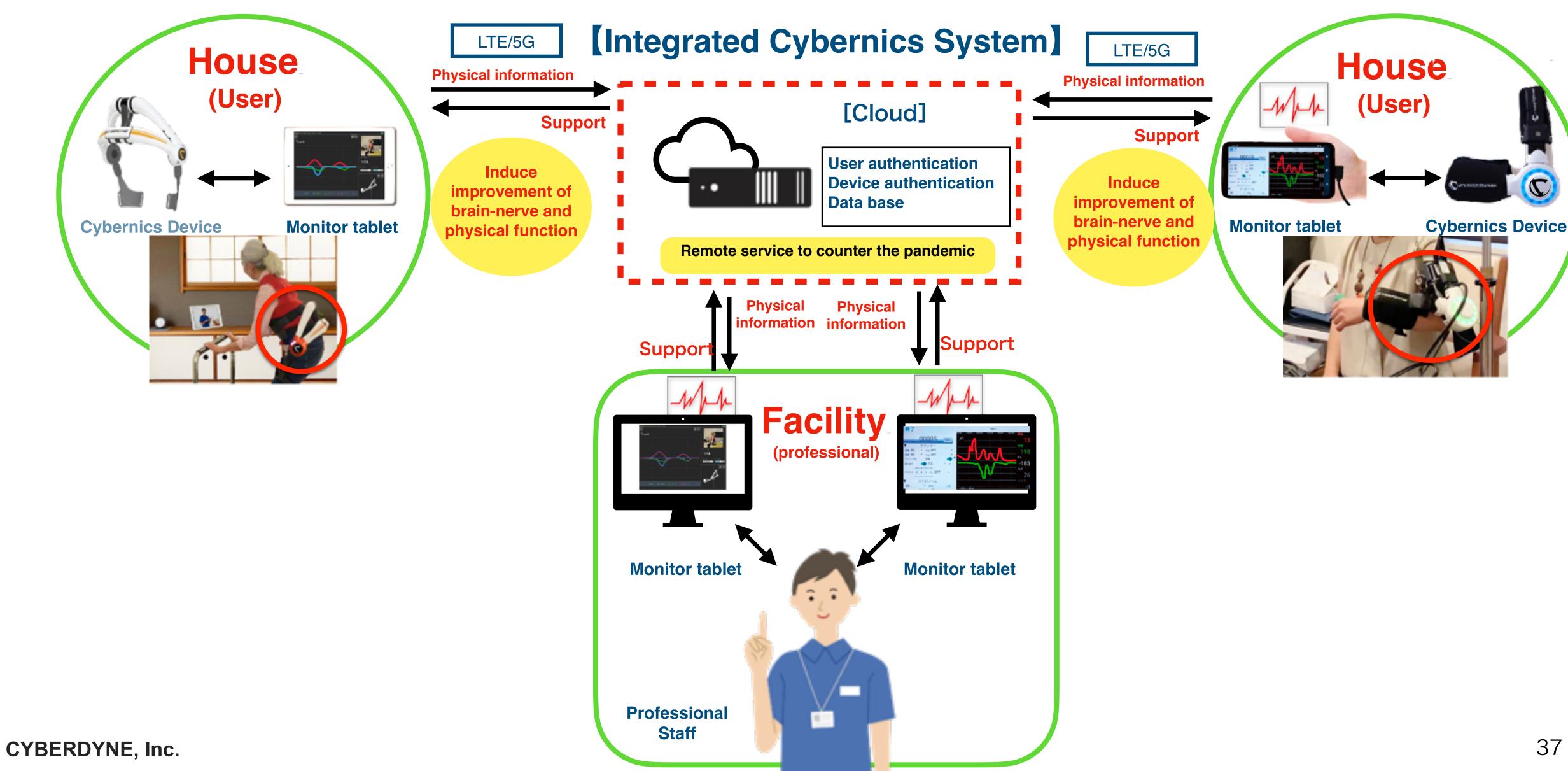
Sources : Kanagawa Future MIBYO Cohort Research, Exploratory Research (interim report)



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Cyvis-Ultra small Vital Sensor



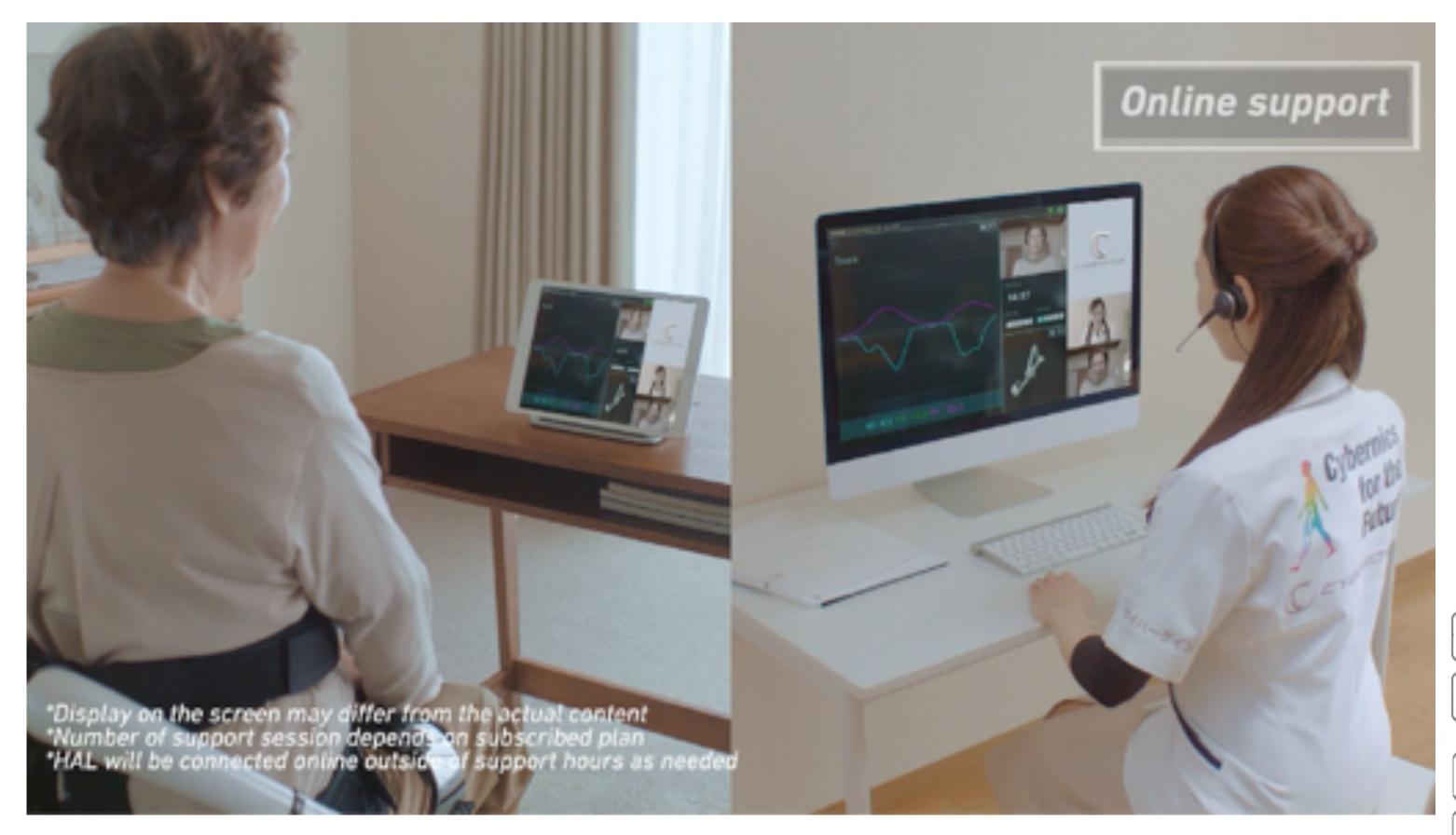
Expands remote service that connects households to hospitals and facilities





Rental service towards individuals: Neuro HALFIT at Home

Prevents the need for care by improving the function of the brain-nerve-muscular system through daily training at home



HAL is data-linked with the Cyberdyne Cloud, which visualizes biopotential signals that command body movements and posture information, etc. This system enables the wearer to obtain visual feedback and allows the trains to customize a program for each user based on the results of data analysis.

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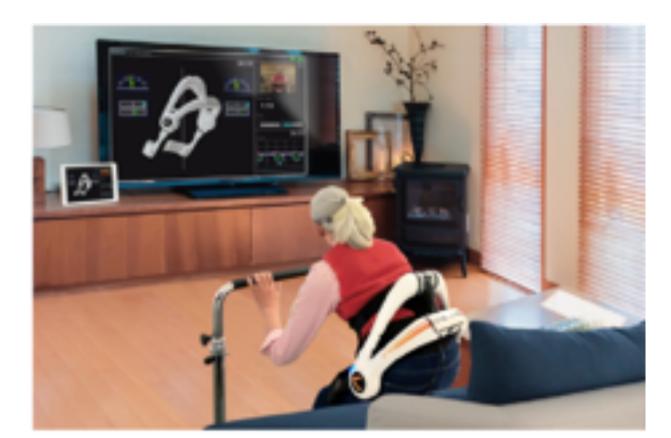
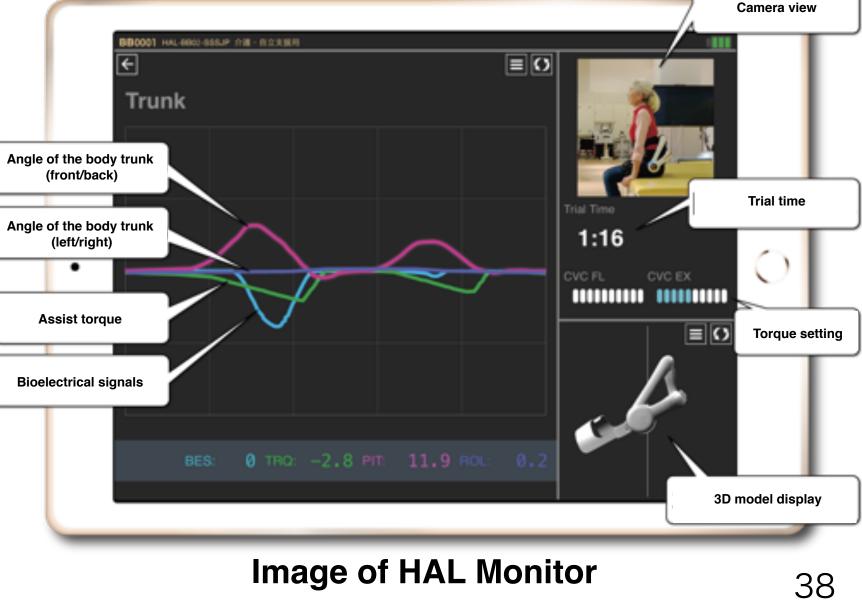


Image of use

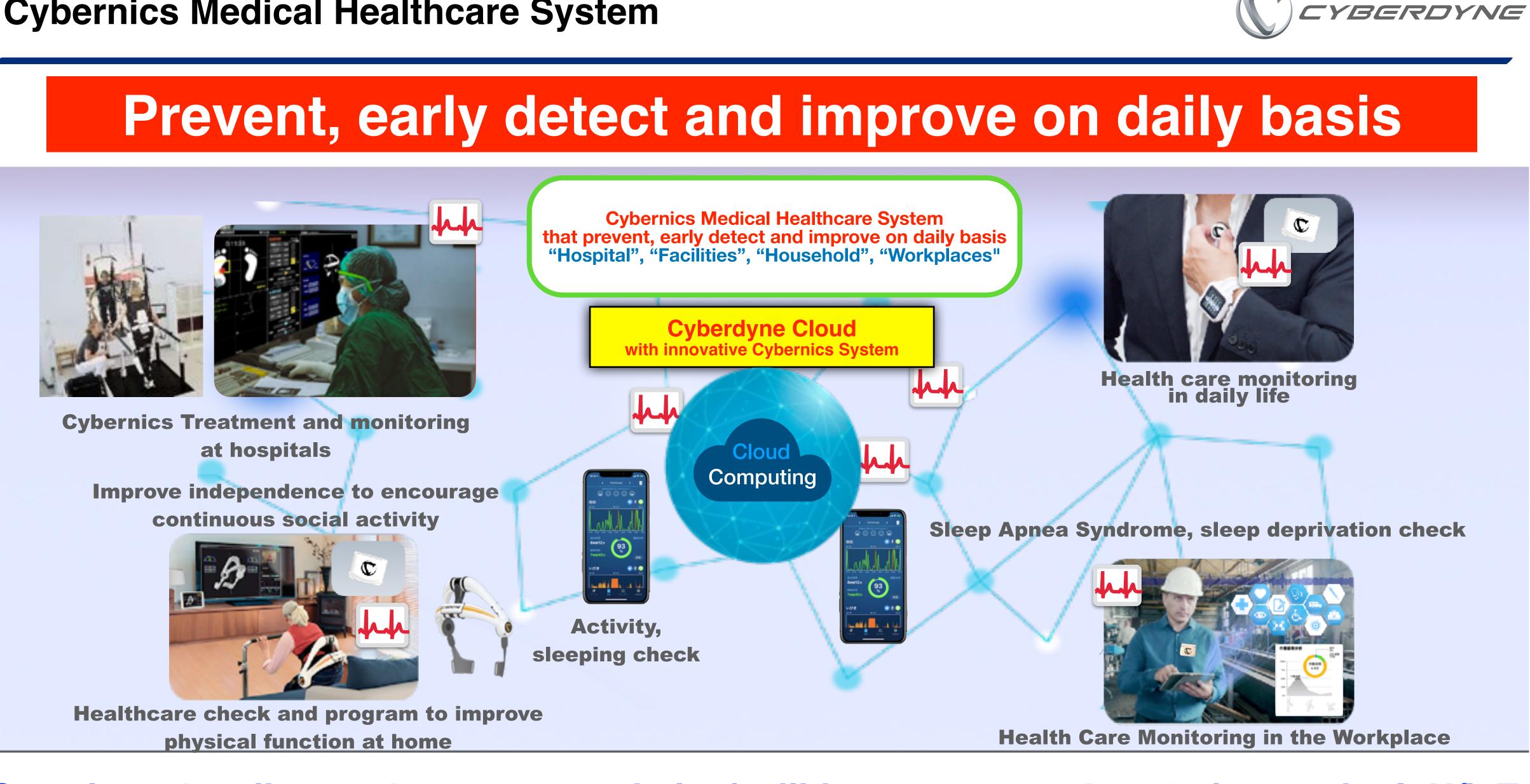


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Prevention and early detection



Cybernics Medical Healthcare System



<u>Seamless data linkage between hospitals, facilities, homes, and workplaces with IoH/IoT</u>

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New "Cyvis": ultra small vital sensor

Healthcare monitoring on daily basis

Continuous measurement of wide range of vital data



<u>Check for arrhythmia and atrial fibrillation to prevent myocardial infarction and cerebral infarction</u>

* Optional feature enables continuous monitoring of sleep respiratory status and screening for SAS (Sleep Apnea Syndrome)

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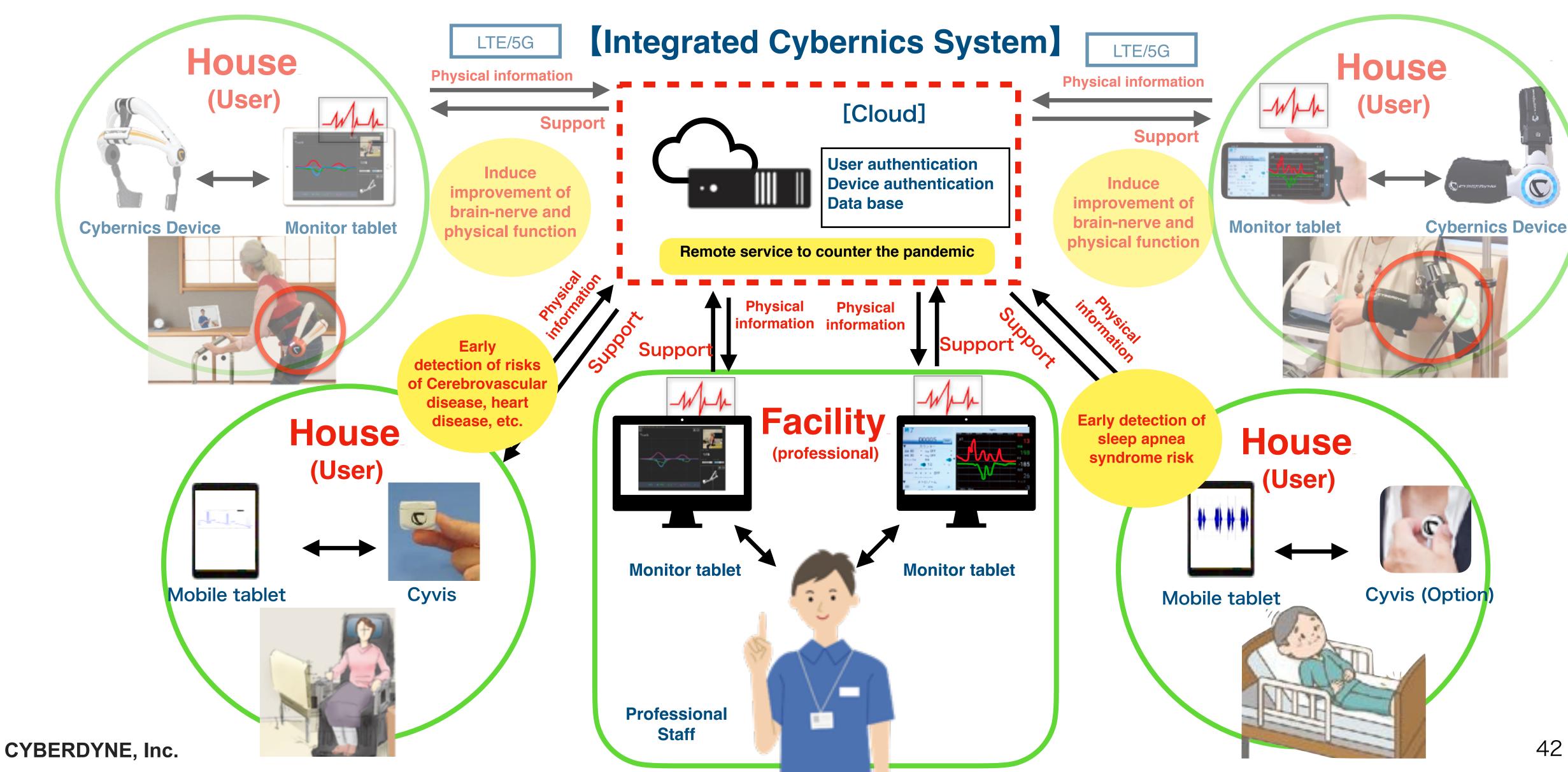


- Cardiac activity
- brain activity
- body temperature
- **SpO2**
- Body movements





Cyvis-Ultra small Vital Sensor



Expands remote service that connects households to hospitals and facilities





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Daily life and work places



Usefulness highly evaluated after 3 years of trial use

Hampshire County, England

- Verification confirms effectiveness of HAL
- With a budget of 500 million yen, a total of 127 units will be introduced
- Suggested additional purchases of up to 1.5 billion yen

Confirmed effects

- Reduced burden: less fatigue and tension
- Reduced risk of injury
- Positive feedback from caregivers
- Increased caregiver efficiency: less need for two people to work (more tasks can be done by one person)





Hampshire County Council

Promotion video



https://www.youtube.com/watch?v=sF-XYdVF3MY

Detail of the result

https://www.local.gov.uk/case-studies/taking-strain-cobots-care







Competitive advantage of HAL Lumbar Type for Labor Support

Advantage of HAL in construction sites, etc.

- productivi management of productivity productivity Safety Can be worn in 10 seconds → Can be taken off and on easily, can be shared with

- 1. Lightest (3.1kg) active type device \rightarrow can be worn for long hours (productivity) 2. Compact \rightarrow can be worn with full body safety belts and air-conditioned clothes 3. Assists walking → makes travel between locations smooth productivity 4. Can travel during crouch posture \rightarrow Adapts to various tasks (productivity) 5. IoH/IoT Device → Visualizes workload and operation status, and enables total 6. Wearable Cyborg \rightarrow Moves according to the wearers intention (productivity)
- other workers productivity

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8. Waterproof/dustproof (IEC standard IP54) \rightarrow Can be used outside, even in rain

productivity







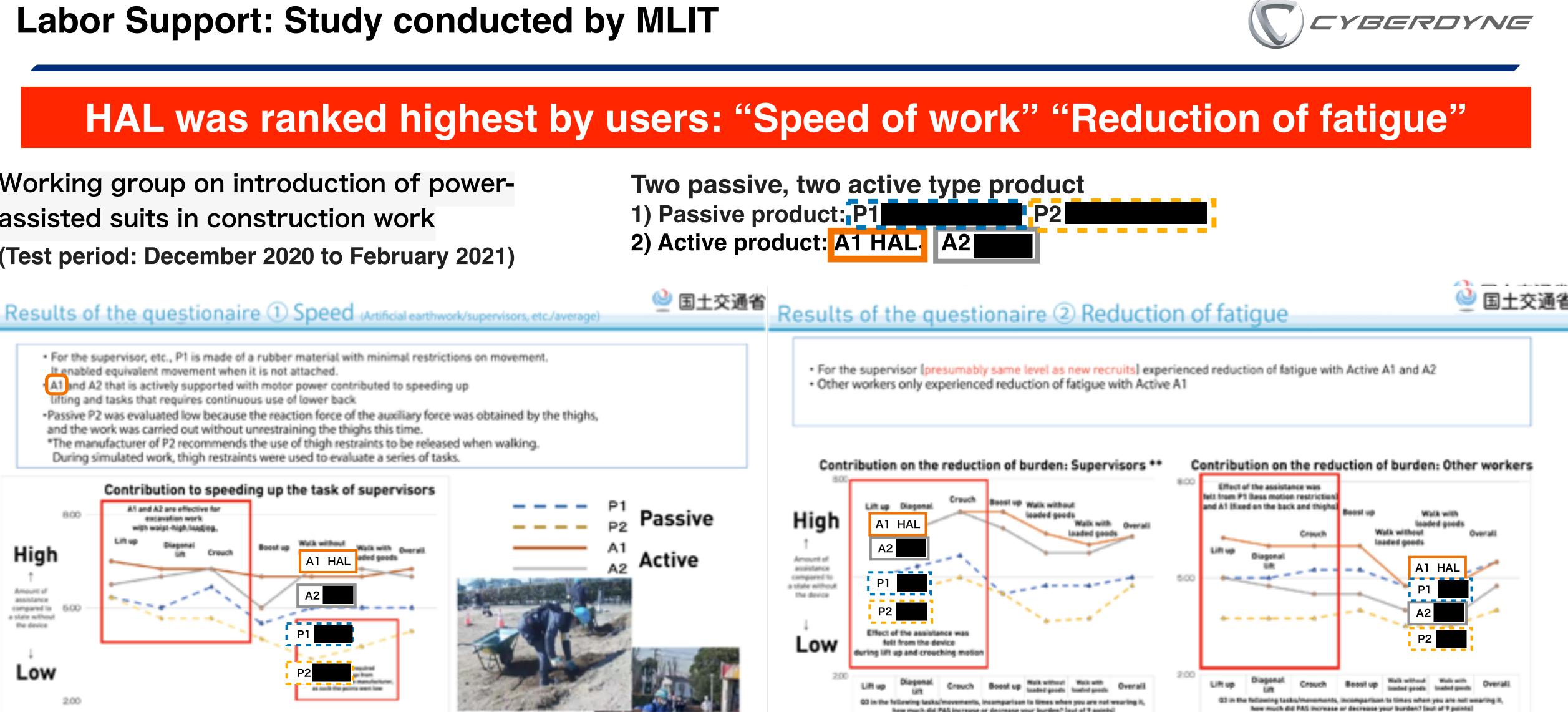








Working group on introduction of power-
assisted suits in construction work
(Test period: December 2020 to February 2021)



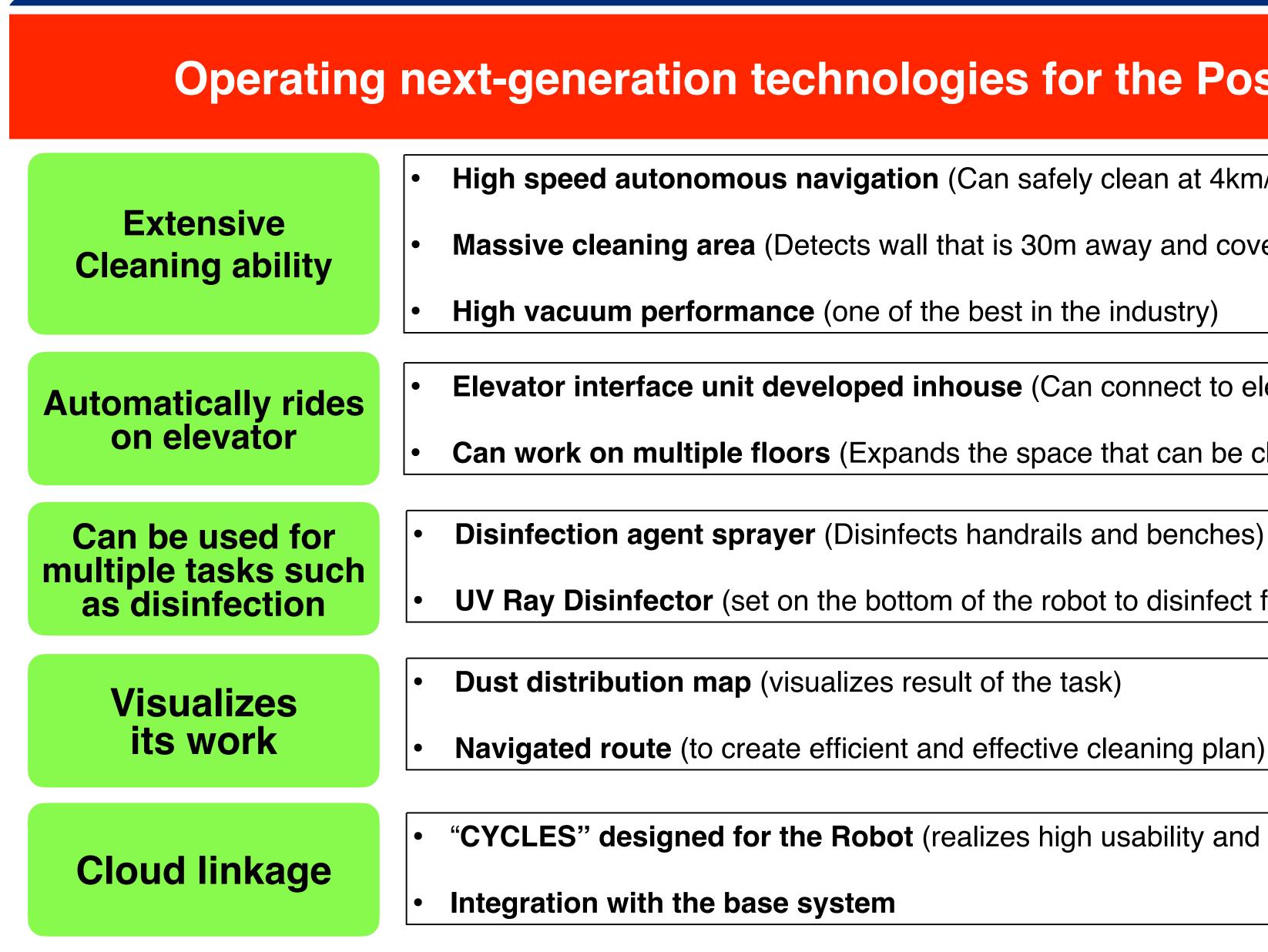
July 13, 2021 The 4th Working Group on the Introduction of PAS in Construction, Document 3 https://www.mlit.go.jp/common/001415266.pdf (trial translation by Cyberdyne)

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Disinfection/Cleaning Robot CL02



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Operating next-generation technologies for the Post-COVID Society

High speed autonomous navigation (Can safely clean at 4km/h to cover massive space in short time

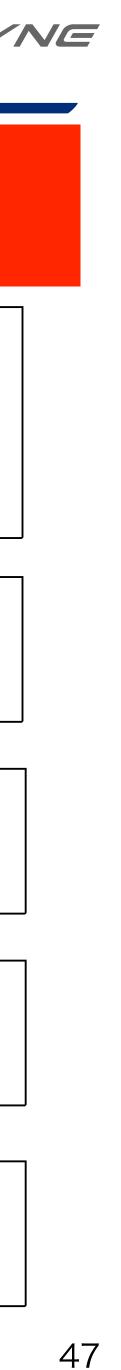
Massive cleaning area (Detects wall that is 30m away and cover max 3,000m² with full charge battery)

Elevator interface unit developed inhouse (Can connect to elevators developed by multiple vendors)

Can work on multiple floors (Expands the space that can be cleaned)

UV Ray Disinfector (set on the bottom of the robot to disinfect floors)

• "CYCLES" designed for the Robot (realizes high usability and management)



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SDGs for Society5.0/5.1



Four projects that contributes to achieving SDGs



Develop Cybernics Technology to support people with reduced physical function

Main initiatives

- Disseminate Cybernics Treatment that promotes functional improvement and regeneration of the brain, nervous system, and muscular system using a Wearable Cyborg HAL, as a global standard treatment
- Disseminate Wearable Cyborg HAL to improve the level of care required by the elderly and prevent severe illness and prevent frailty and maintain independence as physical functions decline with age
- Develop Cyin for Living Support for people with severe disabilities who cannot speak or write as they wish due to the progression of intractable diseases to communicate and operate machines without speech or physical movement



Health Risk Management with Cyberdyne Cloud

Main initiatives

- Develop Cyberdyne Cloud to accumulate, analyze, and perform AI processing of big data on people and things (IoH/IoT big data) obtained through all Cybernics Technologies equipped with communication functions
- Realize personalized healthcare through
 Cyberdyne Cloud
- Develop sensing technology to monitor vital information daily
- Develop HAL at Home as a new service that can share user's information on their training sessions conducted at home using HAL with medical and care facilities

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YBERNICS DIGITAL INDUSTRY

AND INFRASTRUCTURE



Form social infrastructure to create the Cybernics Industry

Main initiatives

- Establish a system to support companies and human resources that develop and deploy technologies and services that solve social problems
- Construct Cybernics Innovation Base to promote innovation in the medical and biotechnology fields
- Continue the projects at the Next-generation multi-purpose robotized production facility to induce innovation in the production field



Realize Society 5.0/5.1, a future society that accelerates innovation

Main initiatives

- Develop mobility technologies that are safe, affordable, and ready for use by all people
- Develop a future city where all people, including the elderly and disabled, can easily access public spaces.
- Establish educational institutions that develop knowledge and skills to help people.
- Create shared spaces that promote innovation and scientific research and areas for field testing





Develop Cybernic Technology to support people with reduced physical function



Main target

10.2 by 2030 empower and promote the social, economic and political inclusion of all irrespective of age, sex, disability, race, ethnicity, origin, religion or economic or other status



By developing the Wearable Cyborg HAL for medical and welfare fields, and Cyin for Well-being to support severely disabled to communicate their intentions, we are supporting the elderly and disabled person by maintaining and improving their functions. We also help them express what they have in mind.

We also develop another type of HAL to support people engaged in heavy work.

This project promotes the empowerment of these people and their social, economic, and political inclusion.



Cybernics Treatment Center and Medical HAL



Cyin for Living Support to support severely disabled person on their communication



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HAL Lumbar Type to support various heavy work

Disseminating Medical HAL as a global standard treatment

As of the end of March 2021. HAL for Medical Use is available in 16 countries and regions, including Southeast Asia and South Asia, as a treatment technology for stroke, spinal cord injury, and intractable neuromuscular diseases.

In addition, in order to contribute to solving the needs of developing countries, we have been selected by the Japan International Cooperation Agency (JICA) to conduct a research project in Brazil.

We will continue to disseminate the technology.

Post-discharge care at the Robocare Center

For those who want to keep improving their physical functions after they get discharged from the hospital, we offer Neuro HALFIT at self-funded rehabilitation facilities called RoboCare Center. As of the end of March 2021, they are 16 centers around Japan. A user can also access similar programs at selffunded rehabilitation facilities with which we have cooperative relationships.

In addition, we have formed alliances with private insurance companies such as Daido Life, AIG Insurance, and Sompo Japan to cover the cost of such programs for their policyholders.

We will continue our efforts to improve physical and economic access.

Improving the working environment

Job turnover due to the onset of back pain and the deterioration of performance caused by frequent heavy lifting is becoming a significant issue in nursing care, construction, and logistics.

The Company develops HAL Lumbar Type to reduce the risk of developing back pain by reducing the load applied to the lower back. The technology empowers people engaged in heavy lifting and enables the worker to continue working longer and safer.

As of the end of September 2021, 1,575 units of HAL Lumbar Type were in operation.

This product is currently available in Japan and the UK. We will continue to disseminate the technology to more countries and regions.

Supporting communication for the severely disabled

We develop Cyin for Living Support, which enables people with severe disabilities who cannot speak or move their bodies due to the progression of intractable diseases to communicate and operate devices.

The product is available on the market. Daido Life Insurance donated the product to several patient groups and patient support groups to promote this endeavor.

We will continue to work on additional functions and offer the product outside of Japan once it is ready.





Health Risk Management with Cyberdyne Cloud



Main target

3.d Strengthen the capacity of all countries, in particular developing countries, for early warning, risk reduction and management of national and global health risks

Our contribution

Cybernics Technology deployed in various fields such as medicine, nursingcare, production, and other workplaces with households, integrally connects people's internal information (brain nerve information, physiological information, etc.), people's external information (behavioral information, lifestyle information, etc.), and environmental information with a supercomputer.

The Company works on the system that accumulates, analyzes, and AI processes all the IoH/IoT Big Data obtained through this process, contributing to personalized medicine, early warning of health risks, and enhancing risk mitigation and risk management capabilities.



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Release of Cyberdyne Cloud

The Company develops Cyberdyne Cloud to connect different fields and provide feedback on health risks based on IoH/IoT Big Data. In Japan, a system that allows users to send information on their training sessions from home to a facility and receive timely support from the facility is already in operation from November 2020.

We will continue to expand this system to other fields according to the development of products and services. We will also offer the system outside Japan to contribute to health management in all countries, including developing countries.

Realizing personalized healthcare

By accumulating, analyzing, and Alprocessing IoH/IoT Big Data related to a single user across different fields, we will realize personalized healthcare that will maximize the effect and safety of that user.

This initiative is being carried out simultaneously with the formation of IoH/IoT Big Data for all users. We will continue to expand this system to other fields according to the development of products and services. We will also offer the system outside Japan to contribute to health management in all countries, including developing countries.

Developing vital sensing technology

In addition to developing the Wearable Cyborg HAL and autonomous navigation technology, we are developing sensing technology to prevent and detect diseases.

For example, commercialization of Cyvis, an ultra small-sized vital sensor to detect arteriosclerosis and arrhythmia at an early stage, and a photoacoustic imaging device to enable real-time analysis of capillary information.

By promoting these products, we will accumulate important vital information that will lead to the prevention and early detection of diseases, thereby contributing to the enhancement of capabilities for health risk management.

New service: HAL at Home

In April 2020, we launched a new service, HAL at Home. This service can create exercise opportunities, which many people lost due to the voluntary restraint from going out because of COVID-19.

The service became a new option for safe and effective training that the user can practice at home. HAL at Home also realized the visualization of exercise information and remote online support by professional staff through HAL's built-in communication functions.

At the end of September 2021, HAL at Home have reached an accumulation of 369 contracts







Form social infrastructure to create the Cybernic Industry



Main target

9.2 Promote inclusive and sustainable industrialization and, by 2030, significantly raise industry's share of employment and gross domestic product, in line with national circumstances, and double its share in least developed countries

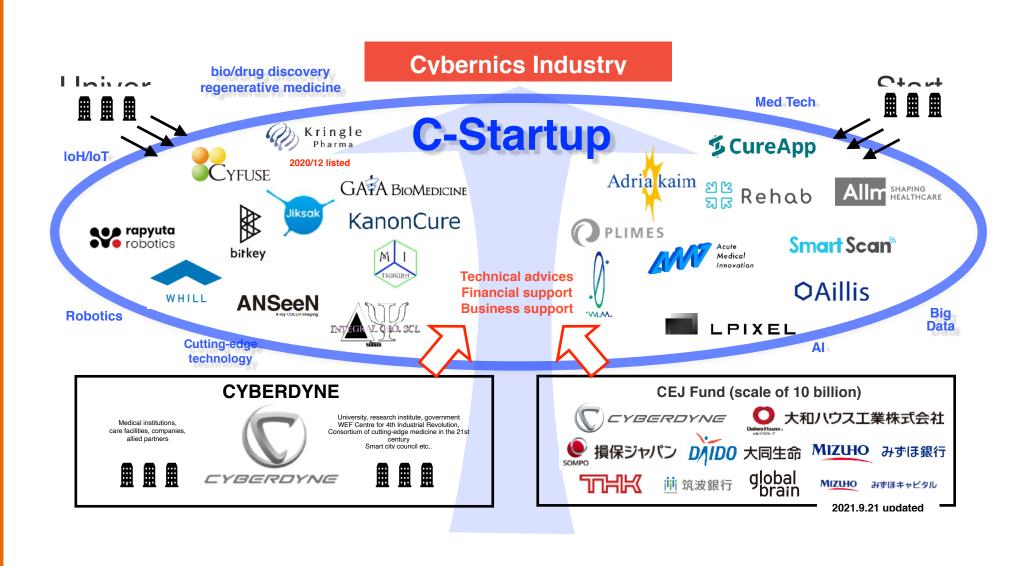
Our contribution

We are working to create an inclusive and sustainable industry called Cybernics Industry by building an innovation ecosystem called C-Startup and facilities to accelerate innovation in medicine/biotechnology and production.

C-Startup, the foundation for the creation of new industries

C-Startup is an innovation ecosystem to create a new industry for solving problems of people and society: Cybernics Industry. We work together with startups and entrepreneurs with similar visions, regardless of their nationalities. We accelerate creating the Cybernics Industry by providing technical advice by Yoshiyuki Sankai (CEO of CYBERDYNE/Professor of Tsukuba University) and financial support by CYBERDYNE and its related Fund.

As part of this initiative, we have formed partnerships with a total of 21 startups and are managing a 10 billion yen fund to support this endeavor.



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Promoting the vision of the Cybernics Industry

The Company promotes the vision of the Cybernics Industry, a new industry that fuses Human and Cyber/Physical Space, both domestically and internationally. With this initiative, we are leading the efforts to form Cybernics Industry together with industry, academia, and government.



G20 delegates visit CYBERDYNE HQ (2019)

For example, in 2019, we communicated this vision to various countries at the G20 Trade and Digital Economic Ministerial Meeting held in Tsukuba City, Ibaraki Prefecture.

We will continue to share our vision of the Cybernics Industry as a foundation for industrial and technological innovation.



Construction of Cybernics Medical Innovation Base

We plan to construct the Cybernics Innovation Kawasaki City, Kanagawa Prefecture, as a accelerate innovation in the medical and biote fields. The facility will house a cluster of me biotechnology ventures. The Company, university resident companies can conduct a clinical tr facility on their own and through collaboration. The facility will be constructed adjacent to Haneda

Exterior image

International Airport in February 2022.

Activities at the Next-Generation Multipurpose Robotic Manufacturing Base

In Koriyama City, Fukushima Prefecture, we have constructed a next-generation production base to produce robots and devices with Cybernics Technology. In this facility, the Company embedded the skills of experienced workers into the robots so the robots and human workers can work in harmony.

The Company constructed the facility in 2016 and completed a registration to manufacture medical devices in 2020.



Exterior of the facility

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Realize Society 5.0/5.1, a future society that accelerates innovation



Main target

11.2 by 2030, provide access to safe, affordable, accessible and sustainable transport systems for all, improving road safety, notably by expanding public transport, with special attention to the needs of those in vulnerable situations, women, children, persons with disabilities and older persons

by 2030, provide 11.7 access to safe, universal inclusive and accessible, green and public spaces, particularly for women and children, older persons and persons with disabilities

Our contribution

Using innovative Cybernics Technology, we promote the fusion of Human and Cyber/Physical Space to create Society 5.0/5.1. We envision this future society as a techno-peer-supported society where technology and human support each other as partners.

Creation of Society 5.0/5.1

Society 5.0 is a concept first proposed in Japan's Fifth Science and Technology Basic Plan as the ideal future society. In this society, science and technology connect all people and things, sharing various knowledge and information to create new values never seen before.

We contribute to the creation of Society 5.0 by implementing Cybernics Technology in the various business fields to integrate internal information (brain nerve information, physiological information, etc.), people's external information (behavioral information, lifestyle information, etc.), and environmental information with a supercomputer. As one of the leaders in this challenge, we work to explore the society beyond Society 5.0/5.1.



perspective drawing of the future city

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Mobility Infrastructure

We are working on personal mobility and drones for transportation that is safe, inexpensive, and easy to use, taking into consideration the needs of the elderly and disabled living in the community.

We are also planning cities based on the premise of introducing mobility, which will shorten travel time and create new connections and added value between functions and facilities.

While developing mobility infrastructure in-house, we are also collaborating with startups that are developing related technologies.

Shared Economy

We plan to shift from the conventional model of occupying information, people, goods, space, and time to a new form of a city where we can share and help each other.

We will work to achieve success with the allies formed in C-Startup. We will also continue to gather people and companies with seeds related to Cybernics and accelerate the creation of innovation through sharing and mutual aid of information, people, goods, space, and time.

Futuristic housing

Through daily health management and lifestyle support infrastructure based on Cybernics Technology, we will develop housing where all people, including the elderly and disabled, can live in harmony with technology and mutually support each other to ensure peace of mind.

Specifically, various Cybernics Technologies, such as the Wearable Cyborg HAL, autonomous navigation robots, and vital sensors, will be introduced into every space, including residences. Personal health information will be accumulated, analyzed, and processed by AI to be linked to medical facilities to manage each person's health and safety better.

An educational institution that nurtures the next generation of human resources

Through collaboration between industry, academia, and government, we are planning an educational institution to foster the next generation of innovators.

We will nurture the next generation of innovators with educational institutions ranging from graduate school to elementary school, taught by instructors from various companies.







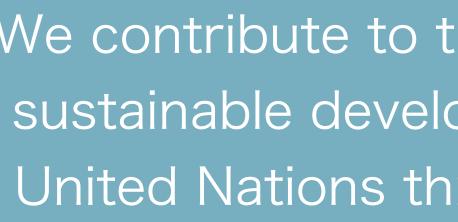




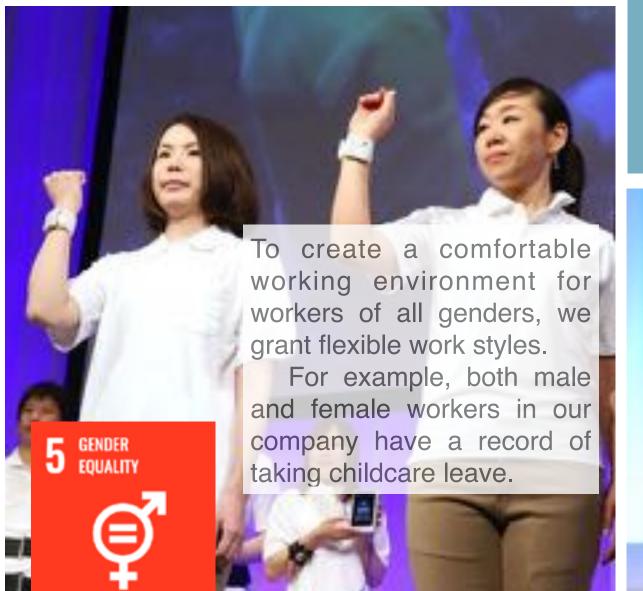
Other initiatives to achieve SDGs



We communicate with public and private insurers to get programs with HAL covered by insurance to make the program more affordable and accessible to people with disabilities.



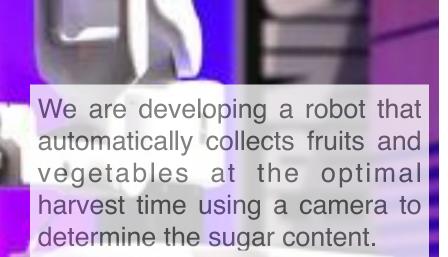
2 ZERO HUNGER





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We contribute to the achievement of other sustainable development goals set by the United Nations through various initiatives

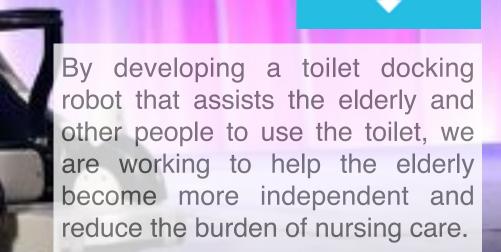




Takezono High School in Tsukuba City featured our company's challenge in their SDGs Karuta, a card game where players can learn about SDGs while having un.



We are working on the development of environmentally friendly, nextgeneration mobility technologies.



6 CLEAN WATER AND SANITATION





Other initiatives to achieve SDGs

We help people with disabilities return to life and work by improving their physical functions.



We contribute to the achievement of other sustainable development goals set by the United Nations through various initiatives



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DECENT WORK AND ECONOMIC GROWTH



13 CLIMATE ACTION

17 PARTNERSHIPS FOR THE GOALS

Based on the motto "science exists for humans and society," we implement various measures to prevent our technology from being diverted to weapons. We are working to solve social issues and realize a peaceful world through our business.





To support recovery from natural disasters, we are lending HAL Lumbar Type, which reduces the load on the lower back, to disaster areas free of charge.

> We actively collaborate with industry, government, academia, and other business fields to pioneer the future together.







This presentation contains forward-looking statements concerning CYBERDYNE, Inc. and its Group's future plans, strategies and performance. Forward-looking statements contained in this presentation are based on information currently available and on certain assumption redeemed rational at the time of creation of this presentation. As such, due to various risks and uncertainties, the statements and assumption does not guarantee future performance, may be considered differently from alternative perspectives and may differ from the actual result.

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