

Consolidated Financial Result Briefing for the Fiscal Year Ended March 31, 2022

CYBERDYNE Inc. May 13, 2022

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CYBERDYNE, Inc.

Consolidated Financial Statement



Consolidated financial results - year-on-year comparison for the fiscal year ended March 31, 2022

Revenue : 2,150M (+14.7% YOY) Operating profit: -868M (Increase of SG&A) Profit: -492M (decrease of finance income)

(Unit: Millions of Yen)

| | FY2020 (Apr.1-Mar.31) | FY2021 (Apr.1-Mar.31) | |
|---|--------------------------|--------------------------|---|
| Revenue (Gross profit) | 1,875 (1,283) | 2,150 (1,462) | (|
| Operating profit | -700 | -868 | |
| Profit before tax | 408 | -379 | |
| Profit attributable to owners of the parent | -59 | -492 | |

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Consolidated financial results - the quarterly result for the fiscal year ended March 31, 2022

| Consolidated statement | of profit or loss | s for the consolidated fiscal year ended March 31, 2022 | | | | YoY +27.99 QoQ +54.19 | % % (Un | it: Millions c |
|---|-------------------------|---|----------------|-----------------|-----------------|--------------------------|------------|----------------|
| | FY2020 | | | FY2021 | | | Year o | n year |
| | Q1-Q4 (Apr.1-Mar.31) | (Apr. 1-Jun.30) | (Jul.1-Sep.30) | (Oct. 1-Dec.31) | (Jan. 1-Mar.31) | Q1-Q4 (Apr.1-Mar.31) | +/- | +/-% |
| Revenue (year on year) | 1,875 | 380 (+5.9%) | 445 (+2.3%) | 521 (+15.2%) | 803 (+27.9%) | 2,150 (+14.7%) | +276 | +14 |
| Cost of sales | 591 | 103 | 103 | 156 | 326 | 688 | +97 | +1(|
| Gross profit | 1,283 | 277 | 342 | 365 | 478 | 1,462 | +179 | +1; |
| R&D expenses | 689 | 188 | 162 | 173 | 190 | 713 | +23 | +; |
| Other SG&A | 1,471 | 391 | 389 | 397 | 610 | 1,787 | +316 | +2 |
| Other income/expense | 176 | 19 | 12 | 34 | 103 | 169 | -7 | -; |
| Operating profit | -700 | -283 | -197 | -170 | -218 | -868 | -168 | _ |
| Finance income/expense | 768 | 4 | 21 | 3 | 366 | 394 | -375 | -48 |
| Other | 341 | 13 | 53 | 8 | 22 | 96 | -245 | -68 |
| Profit before tax | 408 | -265 | -123 | -160 | 169 | -379 | -787 | |
| Profit attributable to owner of the parent | -59 | -276 | -151 | -159 | 95 | -492 | -433 | |
| | | <u></u> | Prope | erty tax 92M | | Gain fra | | foronoo |

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Gain from valuation difference of investment securities 368M

*Lump sum payment in Q4







Consolidated financial results by type of transaction and prospect

Doubled personal services sales drives the growth of companies sales





- Acquisition of basis in U.S. to develop medical services
- Recovery of Robocare in Japan and **German Treatment Center**
- One time sales in the previous FY \bullet (Disinfection/cleaning robot)

- **Expansion of HAL rental to overseas**
 - Medical HAL Lower Limb for APAC and EU
 - HAL Lumbar for Well-being for England •
- Service fee from sleeping app



Revenue from rental and maintenance (by products)

Increase of rental revenue from Medical HAL Lower Limb Type etc.

| | Product | FY2020 | FY2021 | (Composition%) |
|--|--|--------|--------|----------------|
| | HAL Lower Limb Type (medical) | 491 | 564 | 39% |
| For hospitals (to improve patient's | HAL Lower Limb Type (non-medical) | 196 | 188 | 13% |
| physical function) | HAL Single Joint Type | 127 | 132 | 9% |
| For Well-being | HAL Lumbar Type | 245 | 251 | 17% |
| For Labor Support | HAL Lumbar Type | 129 | 98 | 7% |
| Autonom (disinfection/cl | ous navigation robot eaning, transportation etc.) | 61 | 51 | 4% |
| Other | | 24 | 174 | 12% |
| | Total | | 1,457 | 100% |

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(millions of yen)

Increase of rental towards South East Asia and Europe

Large scale orders towards Hampshire, England (Q3)

Service fee from a sleeping app (Q2)









Consolidated financial results -year on year comparison by geographical regions







Ref) by geographical regions and type of transaction

| | | | | Increase from medica fee in the U.S. (from (|
|-----------------------------------|-------------------------|------------------------------------|------------------------------------|---|
| Accumulated result for | Fiscal Year Ended March | 2022 *brackets represent t | he numbers from the previous year) | (Unit: Millions of |
| FY2021 (FY2020) | Rental | Sales | Service | Total |
| Japan | 1,124 (1,052) | 145 (280) | 227 (218) | 1,496 (1,550) |
| Americas | 20 (16) | 0 (-) | 225 (-) | 245 (16) |
| EMEA | 111 (65) | 9 (-) | 71 (44) | 191 (109) |
| APAC | 202 (140) | 15 (53) | 1 (6) | 219 (200) |
| Total | 1,457 (1,273) | 169 (333) | 524 (268) | 2,150 (1,875) |
| AL Lumbar Type: Hampshire England | | nstallation of HAL to Malaysia, In | idia, Indonesia | |





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Future sales growth targets (sales composition by transaction)

Accelerate social implementation as an in-house service business





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Future sales growth targets (sales composition by geography)

Strengthen and accelerate overseas business, especially in the U.S.





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Outline of the business



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

Promote innovation that "leaves no one behind"

Maintain and manage their health even in old age and exercise their long-cultivated abilities to the fullest even if they have a disability due to a decline in physical functions caused by disease, accident, or aging, they can live with a higher degree of independence.



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

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Cybernics Technology: Innovative core technology of Cybernics Industry





***Cybernics:**

New academic field that fuses and combines cross-disciplinary fields. It is centered around humans, robots, and information systems, as well as other fields.



Integrated Cybernics System : Fusion of "Human" + "Cyber/Physical Space"

Realization of physical and informational interaction with 'people' to solve various issues in a super-aging society Create a "Cybernics Industry" for people and society, focusing on medical care, welfare, daily life, workplace, and production



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sterilization



TYBERDYNE



Main business model



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(B to C)

HALF

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Service

- *1 Includes revenue from sales and maintenances
- *2 Includes revenue from rental









C-Startup : Innovation ecosystem to create Cybernics Industry (



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Cybernics Medical Innovation Base (A Building)

Creation of new treatment with Cybernics Treatment combined with regenerative medicine and drug discovery



2022/3 Main building completed 2023/1 **Start operation**

Feature

- Total floor space : 7,855m²
 All floors are designed as wet lab
- Animal Laboratory/ RI Laboratory/ CPC Laboratory
- Genetic Recombination Experiments : P2
- ► Bio Hazaard Level

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Kingsky Front Tonomachi, Kawasaki New base with a view to global expansion (Directly connected to Haneda Airport)









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[Medical] Cybernics Treatment



[Medical] Cybernics Treatment (functional improvement/rehabilitation treatment)

Cybernics Treatment: Innovative method utilizing HAL for treating brain-nerve-musculoskeletal disorders



HAL Lumbar Type





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HAL Single Joint Type

HAL Lower Limb Type



[Neuromuscular disease] Outline and result of performance test

Performance test suggests high efficacy and safety

Safety



Ambulatory function remained above 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



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





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Revision plan for the insurance reimbursement pricing (from April 1, 2022.)

High safety and efficacy was confirmed in 5 years of post-marketing surveillance

Excerpts from the Proposal to Evaluate the Medical Technology (why it should be reevaluated) submitted by the Japanese Society of Neurological Therapeutics – *Translated by CYBERDYNE*

"During 5 years of post-marketing surveillance, the medical technology produced significant improvement of physical function towards slowly progressive neuromuscular disease, which are intractable diseases with no established treatment methods that are effective. The medical effect observed was unheard of by any existing treatment methods, including pharmaceuticals approved for these diseases. Due to the progressive nature of these intractable diseases, research on the natural course of the disease suggest a gradual decline of motor functions. <u>However, when this medical technology was utilized repeatedly over a long duration of</u> 3.5 years, an opposite trend was suggested, and motor function was maintained/improved. Furthermore, the medical technology did not increase the destruction of the patient's muscles. The CK value in the blood** was actually in the declining trend, which is medically noteworthy. Thus, it was suggested that medical technology is a safe treatment method for progressive neuromuscular patients. The medical technology should no longer be regarded as a treatment method to support gait exercises. It should be reevaluated as a new treatment method to activate the loop of the patient's brain-nerve systems."





Revision plan for the insurance reimbursement pricing (from April 1, 2022)

To be excluded from Diagnosis Procedure Combination*

| J118-4 Ambulatory exercise treatment (with Robot Suit) | | | | |
|--|-----------------------|--------------------------|--|--|
| Current (FY2018-2021) | Outpatient | Inpatient | | |
| DPC hospital (80%) | Separately calculated | Combined into other fees | | |
| Non-DPC Hospital (20%) | Separately calculated | Separately calculated | | |
| After the revision (From FY2022) | Outpatient | Inpatient | | |
| DPC hospital (80%) | Separately calculated | Separately calculated | | |
| Non-DPC Hospital (20%) | Separately calculated | Separately calculated | | |

| J118-4 Ambulatory exercise treatment (with Robot Suit) | | | | |
|--|-----------------------|--------------------------|--|--|
| Current (FY2018-2021) | Outpatient | Inpatient | | |
| DPC hospital (80%) | Separately calculated | Combined into other fees | | |
| Non-DPC Hospital (20%) | Separately calculated | Separately calculated | | |
| | | | | |
| After the revision (From FY2022) | Outpatient | Inpatient | | |
| DPC hospital (80%) | Separately calculated | Separately calculated | | |
| Non-DPC Hospital (20%) | Separately calculated | Separately calculated | | |





Revision plan for the insurance reimbursement pricing (from April 1, 2022)

Increase of insurance reimbursement pricing (40,000 JPY per session)

| J118-4 Ambulatory exercise treatment (with Robot Suit) | | | |
|--|--------------------------|---------------------------|--|
| | Current (FY2018-2021) | After revision (FY2022 | |
| 1) Basic fee | 900 points | 1,100 points | |
| 2) Intractable diseases fee addition | 900 points | 900 points | |
| 3) Initial addition fee | 2,000 points | 2,000 points | |
| Total pricing | 3,800 points/ sesion | 4,000 points/ session | |

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Establishing Cybernics Treatment as standard Treatment (Neuromuscular Disease)

Information added on the Intractable Disease Information Center HP

| Intractable Disease | Name of intractable diseases | Intractable Disease Information Center | | Intractable Disease | Associated Medical Society |
|------------------------|------------------------------------|---|-------|---------------------------------|----------------------------|
| No. | | (For general users) | (Summ | ary, diagnostic criteria, etc.) | (Guideline) |
| 1 | Spinal and Bulbar Muscular Atrophy | Description added | | | |
| 2 | Amyotrophic Lateral Sclerosis | Description added | | | |
| 3 | Spinal Muscular Atrophy | Description added | | Croup will | oontinuo to |
| 10 | Charcot-Marie-Tooth Disease | Description added | | coordinate w | vith associated |
| 15 | Inclusion Body Myositis | Description added | | medical soci | eties targeting |
| 30 | Distal Muscular Dystrophy | Description added | | doc | ctors |
| 111 | Congenital Myopathy | (Considering) | | | |
| 113 | Muscular Dystrophy | Description added | | | |

Under the support and guidance of the Ministry of Health, Labor and Welfare, the Intractable Disease Information Center provides patients with intractable diseases, their families, and medical professionals with information necessary for their medical care and treatment on its website https://www.nanbyou.or.jp







Target diseases: **Spinal Cord Injury**

Doubled walking speed for chronic patient (avg 7 years after injury)

- 10m walking speed : Doubled in HAL group and achieved p<0.001
- 6 min walking distance : x1.5 times in HAL group and achieved p<0.001

It was cleared by the U.S. FDA as a medical device in 2017. Additional data submitted by the company suggests that physical function is maintained even when the frequency of treatment is reduced after the intervention period. The U.S. FDA also approved the long-term therapeutic effect.

Participants : 55 chronic spinal cord injury patient (meantime since injury 6.85 years)

- Method : Comparing speed of walking of these patients before and after 60 sessions (approx. 3 months) of HAL Treatment
- **Results : Time required to complete 10m walk improved from** 70.45 seconds ± 61.50 seconds to 35.22 seconds ± 30.80 seconds (Patients doubled their average walking speeds after treatment with HAL)











Target diseases: **Stroke**

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





Status of medical device application for stroke

The <u>clinical significance</u> and <u>statistical significance of the primary endpoints</u>, which are considered the most important evaluation points of the clinical trial results, are being discussed with the authorities with the <u>study coordinating physicians and statistical experts</u>.

Point (1) Clinical significance

In this clinical trial, the <u>HAL Group consistently showed greater improvement than the control group in</u> <u>all endpoints, etc</u>. Therefore, if HAL therapy is applied to stroke hemiplegia patients whose recovery is stalled by conventional rehabilitation, clinically and statistically effective improvement can be expected.

Point (2) statistical significance of the primary endpoints

In this trial, the p-value did not reach 0.05 due to the effect of variance and other factors in the analysis results of the <u>primary endpoint of 10m maximum walking speed</u>, but the efficacy of HAL treatment should be considered based on the overall effect of clinically meaningful improvement (*).

The ASA (American Statistical Association) statement also states the principle that "scientific conclusions and business and policy decisions should not be based solely on whether a p-value exceeds a certain value (significance level)."





Development pipeline

| Target disease | Product Development | Clinical T (Explorate | rial ory) | Clinical Trial (Validation) |
|---|------------------------|--------------------------|--------------|--------------------------------|
| Neuromuscular Disease (8 types of disease such as ALS) | | | | |
| Spastic paraplegia (HAM etc.) | | | | |
| Spinal Cord Injury | | | | |
| Stroke | | | | |
| Cerebral Palsy | | | | |
| Multiple Sclerosis | | | | |
| Parkinsons' Disease | | | | |

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The above situation encompasses HAL products (Lower Limb Type and Lumbar Type).





Conducting pilot research

Conducting pilot research



Status of approvals by diseases and countries

Significant progress in medical devices in the U.S., Europe, and Asia

[HAL for Medical Use Lower Limb Type]

| | | Stroke | Spinal Cord Injury | Neuromuscular disease* |
|-----------|--------------|--|-------------------------|---------------------------|
| Japan | | Planning submission of application for medical device approval | Planning clinical trial | Approved |
| USA | | Approved | Approved | Approved |
| | EU | Approved | Approved | Approved |
| EMEA Sauc | 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 March 31, 2022



Oversea expansion of HAL









[Healthcare] Neuro HALFIT (functional improvement program)

Program to improve brain-nerve-musculoskeltal function at Robocare Center



HAL Lumbar Type





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HAL Single Joint Type

HAL Lower Limb Type







Neuro HALFIT at Home (for individuals in the life stage)

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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*Sales are classified as "service sales" in the case of home services provided by the Group, and "rental sales" in the case of product rentals based on rental contracts.





Image of use



HAL care prevention program

Interim evaluation results of short-term intervention twice a week for a total of 10 sessions (Kanagawa Mirai Unwellness Cohort Study)

| Evaluation item | Before HAL (Mean±SD) | After HAL (Mean±SD) | Improvement rate | P-value |
|---|--------------------------------|------------------------|------------------|----------------|
| 10m walk (walking speed m/sec) | 1.04±0.22 | 1.45±0.25 | 39% | <0.001*** |
| Locomotiv 5 check *Signs of motor unit deterioration | 8.15±2.48 | 3.96±3.15 | 105% | <0.001*** |

Subject n=74 Average age : 74.8 ± 4.3 years old

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Research and development of nursing care prevention programs utilizing healthcare robots



Significant improvement in mobility functions (daily activities such as standing, walking, running, sitting) of the elderly







Strategy for growth

- Growth scenario
- Medical service
- Prevention/early detection
- Workplace



Image of growth scenario



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Reinforcing existing business, pioneering new field (evolution of the business model, M&A)

Expanding existing business (expanding usage, business towards individual users, etc.)

Developing the business base (Expanding product lineup, obtaining regulatory approvals in each countries)

Time









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





Cybernics Medical Healthcare System

Prevent, early detect and improve on daily basis



physical function at home

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









[Medical Healthcare Service for Individuals] Neuro HALFIT at Home Expansion of remote services connecting home and hospitals/facilities through cloud computing









Expansion of hubs in the medical healthcare service business for individuals Nationwide rollout of Neuro HALFIT to improve the neuromuscular system



Planning to open 2~3 facilities in addition to existing 16

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Overseas expansion of medical service business for individuals (U.S.)

Entering medical service business in the US

Name : RISE Healthcare Group Inc.* *RISE Physical Therapy is acquired and established as a new business control company. **Business : Outpatient physical therapy** No. of facilities : 19 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





Growth scenario of medical service business for individuals (U.S.)

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 Healthcare Group 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)**







Cyvis-Ultra small Vital Sensor



Expands remote service that connects households to hospitals and facilities





[Prevention and early detection] Cerebrovascular, cardiac disease

Healthcare monitoring on daily basis with Cyvis series

Continuous measurement of wide range of vital data



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

*Cyvis-1 medical device notification filed (April 2022), trial provision to users started (May 2022)

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- Cardiac activity
- brain activity
- body temperature
- SpO2
- Body movements
- Breathing (optional)

Check for arrhythmia and atrial fibrillation to prevent myocardial infarction and cerebral infarction









"JUKUSUI", a Sleeping support app that visualizes sleep

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*Revenues from usage fees for smartphone applications are classified as "rental revenues.







[Prevention and early detection] Sleep Apnea Syndrome

Identifies risks of Sleep Apnea Syndrome at early stages

Smartphone app "JUKUSUI"



Active user 300 thousand per month





Check sleeping condition

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small vital sensor "Cyvis"



High-precision screening tests (Measures breathing during sleep)

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





[Workplace] HAL Lumbar Type for Care

Promoting digital innovation in care with English government organization



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)

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Promotion video of Hampshire County council

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





[Workplace] HAL Lumbar Type (Labor Support)

Visualizing the workload and physical condition of workers

Active type and light weight

Compact design (back won't be covered)

Assist walking

Able to move in midback position.

IoH/IoT device

Wearable Cyborg

Can be worn in 10 sec

Waterproof/dustproof (IEC reg, IP54)

Can be worn for long hours lacksquare

- Can be used with safety belts (full-body type) and air conditioning suits!
- Can be moved smoothly on site
- Respond with assistance in a variety of practical tasks!
- Visualize workload analysis and operation status! Integrated production management
- It moves according to the wearer's intention
- Easy to put on and take off, share with multiple people!
- Can be worn outdoors, even in the rain! \bullet









[Workplace] Disinfection/Cleaning Robot CL02

Operationalizing next-generation technologies in a post-coronary society

| Extensive | High speed autonomous navigation (Can safely clean at 4ki Massive cleaning area (Detects wall that is 30m away and co |
|---|---|
| Cleaning ability | High vacuum performance (one of the best in the industry) |
| Can be used for multiple tasks such as disinfection | Disinfection agent sprayer (Disinfects handrails and benches UV Ray Disinfector (set on the bottom of the robot to disinfect |
| Visualizes | Dust distribution map (visualizes result of the task) |
| its work | Navigated route (to create efficient and effective cleaning plar |
| Automatically | Elevator interface unit developed inhouse |
| rides on the | (Can connect to elevators developed by multiple vendors) |
| elevator | Can work on multiple floors (Expands the space that can be |
| Cloud linkage | "CYCLES" designed for the Robot (realizes high usability and Integration with the base system |
| CYBERDYNE, Inc. | |





m/h to cover massive space in short time over max 3,000m² with full charge battery)



cleaned)

d management)



Cyberdyne Cloud&Server







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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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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

International Airport in February 2022.

Exterior image

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.



1...



HALF

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developing a toilet docking robot that assists the elderly and other people to use the toilet, we are working to help the elderly become more independent and reduce the burden of nursing care.

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







Other initiatives to achieve SDGs







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



CYBERDYNE, Inc.

DECENT WORK AND ECONOMIC GROWTH

6



13 CLIMATE ACTION

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.







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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