



Press release

December 18, 2017

CYBERDYNE, INC.  
Mizuho Bank, Ltd.  
Global Brain Corporation

CYBERDYNE, Mizuho Bank and Global Brain will establish “CEJ Fund” for the development of new industrial infrastructure to assist and nurture venture companies

~ Creating Cybernic Industry to bring about social problem-solving economy and turn Japan into the world’s most innovation-friendly country~

CYBERDYNE, INC. [Ibaraki Prefecture, Japan, CEO: Yoshiyuki Sankai (the “Company”)], Mizuho Bank, Ltd. [Tokyo, Japan, CEO: Koji Fujiwara (“Mizuho Bank”)] and Global Brain Corporation [Tokyo, Japan, CEO: Yasuhiko Yurimoto (“Global Brain”)] will establish CEJ Fund (“the fund”) in order to turn Japan into the world’s most innovation-friendly country by revolutionizing its industries and society through Cybernics\*<sup>1</sup>.

CEJ Fund will assume the role to establish a new industrial infrastructure to support and nurture venture companies within Cybernics Excellence Japan (“CEJ”) initiative that is promoted by CYBERDYNE and its CEO, Yoshiyuki Sankai (who also works as a professor at University of Tsukuba, program manager of ImPACT hosted by the cabinet office of Japan) as an integrated consortium of the government, academics and companies to create new industries. CEJ Fund will create Cybernic Industry by investing and supporting human-assistive venture companies that are engaged in medicine, health care, robotics, AI, Big Data, IoT/IoH (Internet of Humans/Internet of Things) and any other fields related to Cybernics. This would simultaneously solve social problems and create new industries.

CYBERDYNE, Mizuho Capital Co., Ltd. (a subsidiary of Mizuho Bank, Tokyo, Japan, CEO: Hajime Saito), and Global Brain will establish CEJ Capital Inc. (“CEJ Capital”) within the year 2017. In order to set up the fund, CEJ Capital will go through necessary steps to start its operation by receiving risk money from financial institutions such as Mizuho Bank, corporations and others, who agree to the cause of CEJ.

In Japan, aging population and declining birthrate are progressing so rapidly that shrinking labor and



increasing heavy and long-term care and social welfare expenditures such as medical expenses are becoming more serious. This is also becoming apparent in other advanced countries and is eventually expected to spread around the world.

CYBERDYNE created innovative and human assistive Cybernic Technologies\*<sup>1</sup> to tackle combined “social problems”. CYBERDYNE and Yoshiyuki Sankai, from the early stage, planned and prepared the CEJ initiative for the advancement of these endeavors integrally to create Cybernic Industry that would bring about the shift from a consumption economy to a social problem-solving economy. In order to speed up CEJ initiative to solve social problems, it is necessary to work closely with each of academics, government and industries regardless of their nationalities and accumulate human and company resources related to the seeds of Cybernics field. This must also be done simultaneously with endeavors to get involved entirely from the development process of innovative technologies or devices to its social implementation in a global scale in order to create new industries and induce positive spiral of innovation.

Mizuho Bank and Global Brain agreed to this social cause and decided to join CYBERDYNE in structuring a new industrial infrastructure with CEJ Fund to support and nurture venture companies.

Once the fund is established, CYBERDYNE, a company with a strength to create innovative technologies based on Cybernics, will support and work together with the invested companies, in order to increase the corporate value of the invested company. Global Brain will contribute to CEJ Fund by structuring a system that enables smooth operation and monitoring and ensures the transparency of the fund as their main role. Mizuho Bank will utilize the network of the Mizuho Financial Group to support the creation of the new industry by promoting the commercialization of the invested venture companies mainly through business matching, and providing industrial and business perspectives to them.

CYBERDYNE, Mizuho Bank and Global Brain will promote solution of social problems and creation of new industries in CEJ initiative through series of CEJ Fund endeavors. This will lead to realization of industrial and social revolution with Cybernics (Cybernic Revolution) and shape “Society 5.0”<sup>\*2</sup> where humans and technologies coexist by connecting to each other.



- \*1 Cybernetics: A new academic field that is centered around human, robots and information systems. Targeting medicine, welfare and living support fields (including labor support) as its main industries, it fuses and combines the functions of humans, robots and information systems, realizing interactions between physical-information-vital systems. Cybernetics is championed by Dr. Yoshiyuki Sankai, a professor at the University of Tsukuba (he is also the President and CEO of CYBERDYNE) and the technology is thought to be one of the core technical domain that drives the movements to realize “Society 5.0”. Cybernetics is an interdisciplinary and multifaceted approach that is effective upon inventing solution towards practical issues of human and society.
- \*2 Society 5.0: a concept of super-smart society of the future, promoted by the Japanese government. It is the fifth society after “hunter-gatherer society (Society 1.0)”, “agricultural society (Society 2.0)”, “industrial Society (Society 3.0) and “information society (Society 4.0)”. It is a new image of a society brought by science and technological innovation, where technologies such as artificial intelligence (AI) and Internet of Things (IoT) will be fully implemented into the society. It was stated in the 5th Science and Technology Basic Plan that Japan is going to start their endeavor ahead of other countries to realize this society. As Japan was the host of the G7 Meeting that was held in May 2016, Japanese government projected this concept to the world as the ideal future society where humans and technology coexist. As one of the major power force driving the endeavors to realize “Society 5.0”, CYBERDYNE contributed to the G7 Science and Technology Ministers’ Meeting that was held in Tsukuba, Ibaraki, Japan as CEO Yoshiyuki Sankai presented a keynote speech as well as a speech addressing the ministers at the meeting.

<About CYBERDYNE, INC. >

Since its establishment as a venture company from the University of Tsukuba in 2004, CYBERDYNE, INC. has promoted the comprehensive development of various Cybernetic\* Systems (Cybernetic devices, Cybernetic interfaces, etc.) that utilize Cybernetic Technology from research and development to social implementation, aiming to tackle the various issues facing society. The Company has developed business in the fields of medicine, welfare and daily living (including the work environment), and its main product Robot Suit HAL® is widely distributed not only in the medical and welfare fields but also in care support and labor support fields. In addition, new products such as Transport Robots and Cleaning Robots equipped with artificial intelligence and environment recognition functions, HAL Lumbar Type that reduces the load and stress on the lower back, smaller-sized HAL (Single-Joint Type), Vital Sensors for detecting arteriosclerosis and arrhythmia measurements, etc. are continuously being developed. For more details, please refer to the following website: [www.cyberdyne.jp/eng/](http://www.cyberdyne.jp/eng/)

<About Mizuho Bank, Ltd.>

Representative: Koji Fujiwara, President & CEO

Date of Establishment: July 1, 2013



Capital: JPY 1,404 billion (as of March 31, 2017)

Number of Employees: 29,848 (as of March 31, 2017)

Domestic Network: 421 head office and branches, 41 sub-branches (as of December 31, 2016)

Overseas Network: 26 branches, 17 relevant offices, 6 representative offices, 38 subsidiaries (as of December 31, 2016)

Main business: Banking

URL: <https://www.mizuhobank.com/index.html>

#### <About Global Brain Corporation >

Founded in Tokyo, Japan in 1998, Global Brain Corporation is a leading Japanese VC firm with the AUM of approximately \$600 million. Since 2001, when it raised the first fund, Global Brain Corporation has invested in entrepreneurs who have founded startups with innovative business model or disruptive technologies and has supported them to tackle various problems and create innovation. Global Brain Corporation has provided them with growth support through hands-on and has supported open innovation of Japanese large cap companies and startups by helping build alliances/partnership with each other