

PRESS RELEASE

To the press

Jun. 15, 2020
NejiLaw Inc.

NejiLaw and Kandenko have started a joint-verification project of "smartNeji System for Wind Power Stations and Transmission Towers"

NejiLaw Inc. hereinafter referred to as "NejiLaw", (CEO: Hiroshi Michiwaki Headquarters: Bunkyo-ku, Tokyo, Japan) has signed a joint development contract with Kandenko Company, Limited (Head Office: Minato-ku, Tokyo; President: Yoshimi Morito) regarding "smartNeji System for Wind Power Stations and Transmission Towers", which has been jointly developed with CASIO COMPUTER CO., LTD. NejiLaw and Kandenko have jointly started an open innovation verification project.

NejiLaw X KANDENKO

A new world opened by smartNeji

By combining the technological strengths of both companies: non-loosening screw and thread, bolt and nut centered on precision stress sensor technology by NejiLaw, and communication circuit technology that has shock resistant, vibration resistant, and low power consumption which was developed by CASIO G-SHOCK; we have realized the multi-sensing IoT bolt "smartNeji" that has not only the same level of robustness as conventional screws, but also multi-sensors. Wirelessly checking the status during fastening and collecting stress information (so called "Material Vital Signs"), this IoT-Neji enables to analyze the stress status of the entire structure with your own AI-based monitoring system "God Eyes".



NejiLaw aims for "Loc-Tech 'Advanced Loc-King Technology'" to improve National Resilience

The Tokyo Olympics and Paralympics will be held again after 57 years since 1964.

Nearly 60 years have passed since infrastructure construction was actively carried out in Japan.

Building life is estimated to be 40 to 50 years and in recent years, decrepit infrastructure is increasing rapidly.

A wide range of social infrastructure, including steel towers, bridges, tunnels and highways, as well as dams, water supply and sewerage systems and railways require countermeasures for their improvement. The need for earthquake resistance, repairs, renovations, and reconstructions has increased dramatically. If they are left unrepaired as it is, the estimated damage amount from a severe earthquake in the near future is 1,410 trillion yen in case of Nankai Trough earthquake and 778 trillion yen in case of directly below Tokyo earthquake, according to the announcement made by The Japan Meteorological Agency (JMA).

The Japanese government formulated the National Resilience Policy and on December 14, 2018, the Cabinet approved the thoroughly renewed Basic Plan for National Resilience Project with a budget of more than 5.3 trillion yen in FY 2019 alone. The government is promoting an ultra-mega measure which is estimated to have a total capital of 200 trillion yen.

Within social capital, there are 730 thousand road bridges across the country, of which 60% are already more than 40 years old (according to data from the Ministry of Land, Infrastructure and Transport). In addition, on the approximately 230km of bridges of the highways in the eastern/central/western Japan, the replacement costs of reinforced concrete floor slabs are approximately 1,650 billion yen (according to data released by NEXCO).

NejiLaw will continue to make a broad-ranging contribution to the society with our "power of emergence" generated by the consistent in-house system: inventive development speed, problem solving system, research/development/mass production technology management/Quality, along with L/R-bolts, ZaLoc, JicLoc, ShuLoc, VanLoc and other high-grade joining members.

Company Profile

Company Name	NejiLaw Inc.
Representative	Hiroshi Michiwaki, President & CEO
Headquarters Location	Shoei Building 4F, 3-23-14 Hongo, Bunkyo-ku, Tokyo
Established	July 2009
Business activities	Development, manufacturing, sales, and licensing of High-functionality / high-performance industrial fastening member.
Capital	JPY 499,000,000

Award History	FY2009 / Received 3 awards including Most Attractive Award in Business Plan Contest. (Sponsored by MIT (Massachusetts Institute of Technology)-Enterprise Forum.)
	FY2010/ Adopted as a new technology development grant project (Sponsored by Ichimura Foundation for New Technology)
	FY2011/ 6 awards including Kawasaki Entrepreneur Award Grand Prize (Sponsored by Kawasaki Institute of Industrial Promotion)
	FY2011/Good Design Award Gold Award (Minister of Economy, Trade and Industry Award) (Sponsored by Japan Institute of Design Promotion)
	FY2011/Tokyo Venture Technology Award Grand Prize (= Tokyo Governor Award)

(Sponsored by Bureau of Industry and Labor Affairs, Tokyo Metropolitan Government)
FY2011/Received Kyu-To-Ken-Shi Kirarito-Hikaru Industrial Technology Award
FY2012 /Adopted as Strategic Basic Technology Upgrade Support project
(Sponsored by Kanto Beureau of Economy, Trade and Industry)
FY2013/Adopted as the 1st Global Niche Top Grant Project
(Sponsored by Bureau of Industry and Labor Affairs, Tokyo Metropolitan Government)
FY2015/14th Japan Innovator Grand Prize Excellence Award
(Sponsored by Nikkei Business Publications, Inc.)
FY2018 /7th Technology Management & Innovation Awards, Chairman Award
(Sponsored by Japan Techno-Economics Society)

URL : <http://www.nejilaw.com>

For inquiries, please contact the following.

NejiLaw Inc. Public Relations : info@nejilaw.com