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Stock Exchange Listing:	Tokyo Stock Exchange Section 1
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Announcement of New Medium-Term Management Plan "Vision 2021"

W-Scope Corporation (WS) renewed medium-term management plan that was announced in August 2017 and made a new plan called "Vision 2021" that extends until the end of fiscal year Dec 2021.

Our customers revise up EV lithium ion battery production significantly, in Far East, Europe and US. Purpose of renewal of the medium-term management plan is to detail out sales and investment plans for the period and clarify growth potential of our business.

1. Vision

Our vision is to become a leading company that specialises in membrane films.

2. Generic Strategy for Growth

① Lithium ion battery separator business

Since 2015, lithium ion battery market has enjoyed stable growth in consumer applications such as smartphones and accelerated growth in automotive application such as xEV in China. Global lithium-ion battery market has grown 2 folds for the past 3 years. Going forward, the market is expected to be boosted by stricter environmental policies implemented in each country, leading the market to double over the next 3 years.

With such a positive market overview, we implement growth strategy as follows;

- **Expand production capacity supported by the market growth**
- **Enhance production efficiency by introducing large-scale production lines**
- **Attempt to reduce production cost**
- **Maintain high level of product quality to guarantee safety of EVs**

② New businesses

Although we currently have lithium ion battery separator as a sole product, the core of our manufacturing is membrane production technology. We continue to develop new products by applying membrane manufacturing expertise to develop new products in the following business areas

- **Energy-related: next generation battery, capacitors**
- **Water-related: Ion-exchange membrane, water treatment filter etc.**
- **Air-conditioning: irreversible filter**
- **Medical applications: dialysis filter、artificial skin**

3. CAPEX Plan

W-Scope Korea (WSK), a production subsidiary based in the Chungcheong Buk-do district, the Republic of Korea, has already been operating 9 separator mass production lines over 3 industrial sites. There are also 4 coating lines under operation as well as 2 lines under installation process. Additional 4 lines on the investment pipeline are planned to start operation in the first half of 2020.

Furthermore, at W-Scope Chungju Plant (WCP) in Chungju-city, the Republic of Korea, 2 large-scale separator production lines have started operation. In the second-half of 2019, additional 2 large-scale lines are planned to start volume production.

We plan to continue investing on film forming lines as well as coating lines at WCP.

4. Numerical Target (Consolidated)

(¥million)	FY12/2017 (Actual)	FY12/2018 (Forecast)	FY12/2019 (Target)	FY12/2020 (Target)	FY12/2021 (Target)
Revenue	9,517	9,100	15,000～20,000	22,000～30,000	38,000～48,000
Operating profit	274	△2,400	100～3,500	800～6,900	7,000～15,000

Note: Sales target figures after 2019 onwards are shown in range for sales volume per automotive project in developed countries appear to be significantly large and would cause volatility in revenue in case sales schedule were delayed.

FOREX Assumption

¥ / US$	112.1	1H (A) 108.7 2H (E) 110	108
¥/ KRW1000	99.2	1H (A) 101.1 2H (E) 100	98.2
KRW / US$	1,131	1H (A) 1,075 2H (E) 1,100	1,100

Note: For FY12/2018 FOREX rate, 1H (A) is the actual rate and 2H (E) is estimate.

Disclaimer

Earnings guidance was made based on currently available information. The actual results may differ from the guidance due to various factors that may occur in the future.