

April 21, 2022

Senior Vice President and Executive Officer, Technology, Quality Management, Global CTO Masato Banno



## Bridgestone Innovation Park



### *IRIDGESTORE*



Toward 2050, Bridgestone is evolving into a sustainable solutions company. Born of our enduring Bridgestone values, this is our personal E8 Commitment to support the realization of a sustainable society.

Energy Committed to the realization of a carbon neutral mobility society.
Ecology Committed to advancing sustainable tire technologies and solutions that preserve the environment for future generations.
Efficiency Committed to maximizing productivity through the advancement of mobility.
Extension Committed to nonstop mobility and innovation that keeps people and the world moving ahead.
Economy Committed to maximizing the economic value of mobility and business operations.
Emotion Committed to inspiring excitement and spreading joy to the world of mobility.
Ease Committed to bringing comfort and peace of mind to mobility life.
Empowerment Committed to contributing to a society that ensures accessibility and dignity for all.

#### Bridgestone E8 Commitment to Our Future

For the sake of the Earth, which future generations of children have entrusted in our care. Together with you.

#### Bridgestone 1.0 ~ Bridgestone 2.0

### Bridgestone 3.0 ~



#### Contribution to motorization in Japan

The newest model plant in 60's, with the newest plant layout Produce the best products with collaboration of plant and tech center facing each other

#### Creation of a community with regional society and Bridgestone

Built Employee apartments, hospitals, wellness facilities, donated elementary school

### Contribution to the region's environment and teammate's health

Plant greenscapes around facilities and managed exhaust and other emissions as well as noise and dust

### **Bridgestone Innovation Park**

Vision of Kodaira-Tokyo Renovation

Creating future value from Kodaira, the birthplace of Bridgestone's technology



**B-Innovation** 

# Bridgestone Innovation Park

**B-Mobility** 

Bridgestone Innovation Gallery

Global hub to generate new value through innovation Begin from interaction with empathy toward Co-ideation, Co-R&D and Co-creation

#### **Co-creation**



Realize the value through Real X Digital activities with co-creation partners Create new businesses

Co-R&D



Research & develop utilizing expertise of Bridgestone and partners for value creation

#### **B-Innovation**

Tim

#### Interaction with empathy



Build mutual understanding from empathy Explore seeds, ideas with various stakeholders

**Co-ideation** 

K16



Exchange ideas about concept of technology and business model etc. and crystallize them

**B-Mobility** 

**B-Innovation** 

Establish agile development which repeat the process "develop and test immediately by combining of Real (physical) X Digital - Maximize innovative value generated from co-creation -

### Innovation generated in Bridgestone Innovation Park



### How Bridgestone accelerates innovation

\*ABW = Activity Based Working \*DX= Digital Transformation



Accelerate innovation through co-creation with strong real & digital and new workstyles

### New workstyles to generate innovation (Activity Based Working)

#### Transform culture that realizes both "each employee's growth and happiness" and "growth of Bridgestone"

With partners, employees design various workstyles as they wish at anytime, in anywhere, with anybody



Drive innovation by integrated transformation of both work places and workstyles

### Co-creation with Bridgestone's global innovation sites



Drive Co-creation between innovation sites in each region, from Bridgestone Innovation Park as a global hub



### From interaction with empathy to co-creation



### Framework of co-creation based on Bridgestone E8 Commitment

Corporate Commitment Bridgestone E8 Commitment



Axis to drive management while earning the trust of future generations

From interaction with empathy to co-creation



"Co-creation" mobilizing Bridgestone's core competencies



"Co-creation" carrying the dreams of humankind



"Co-creation" with new teammates in Bridgestone



"Co-creation" in exploratory business



### "Co-creation" mobilizing Bridgestone's core competencies



Create Dan-totsu products, Dan-totsu solutions by connecting across engineering chain & value chain, EtoE

"Co-creation" mobilizing Bridgestone's core competencies - Tire business - : ENLITEN business strategy

"ENLITEN" : innovative tire technology optimal for EV fitment

Evolve into "business strategy" with technology, product and business model : ENLITEN business strategy "a new premium for EV era"

#### ENLITEN BUSINESS STRATEGY

Sustainability vs. business growth

Customization of tire performance vs. productivity improvement & cost optimization across value chain

Simultaneously create value that can sometimes be contradictory

### "Co-creation" with new teammates in Bridgestone : Global expansion of solutions business





### "Co-creation" carrying the dreams of humankind : A moon exploration project with "team Japan\*"

\* team Japan : mainly consisted of the Japan Aerospace Exploration Agency (JAXA) and Toyota Motor Corporation (Toyota)

Carry the dreams of humankind on the harsh lunar surface as a member of "team Japan\*"

- tires evolve with every new dream -

- Go Farther. Go Anywhere -



Rover for mobility on the lunar surface "Lunar cruiser" (co-development by JAXA and Toyota in 2019 – 2021)

An unprecedented air-free tire with steel wool



### "Co-creation" in exploratory business



#### **Recycle business**

Tire to Rubber & Tire to Raw Material Explore technology

From tire to oil and chemical products

- Aim to build recycle business with ensuring high-quality
- Co-create with partners and promote ecosystem building to build business model globally while leveraging each region's characteristics and strength



### "Co-creation" in exploratory business : Soft-robotics business

#### **Empowerment**

#### Social / customer issues

- Declining birthrate & aging population
- Needs for contactless (COVID-19 impact)
- Work automation



"Support mobility & movement of people and objects with safety & peace of mind"

Pick things up "in the right way" - Soft-robotics business - Support the lives of all individuals through the power of rubber -



Leverage in "Mastering rubber" "Mastering road contact" Core technology : Rubber actuator (rubber artificial muscle)

Aim to establish business model based on co-creation

### "Co-creation" in exploratory business : Recycle business

Energy Ecology

Toward the realization of material circularity, drive the commercialization of recycle which "renew" used tire to raw material with co-creation partners globally





### Bridgestone's Recycle business

**Used tire = "resource"** 

"Renew" tires to raw material

Create a society where tire value "circulates"

Preserving the environment for future generations through the recycling of tires

Together with you





Energy

Bridgestone E8 Commitment to Our Future

## **BRIDGESTONE**

Solutions for your journey

Statements made in this presentation with respect to Bridgestone's current plans, estimates, strategies and beliefs and other statements that are not historical facts are forward-looking statements about the future performance of Bridgestone. Forward-looking statements include, but are not limited to, those statements using words such as "believe," "expect," "plans," "strategy," "prospects," "forecast," "estimate," "project," "anticipate," "may" or "might" and words of similar meaning in connection with a discussion of future operations, financial performance, events or conditions. From time to time, oral or written forward-looking statements may also be included in other materials released to the public. These statements are based on management's assumptions and beliefs in light of the information currently available to it. Bridgestone cautions you that a number of important risks and uncertainties could cause actual results to differ materially from those discussed in the forward-looking statements, and therefore you should not place undue reliance on them. You also should not rely on any obligation of Bridgestone to update or revise any forward-looking statements, whether as a result of new information, future events or otherwise. Bridgestone disclaims any such obligation.