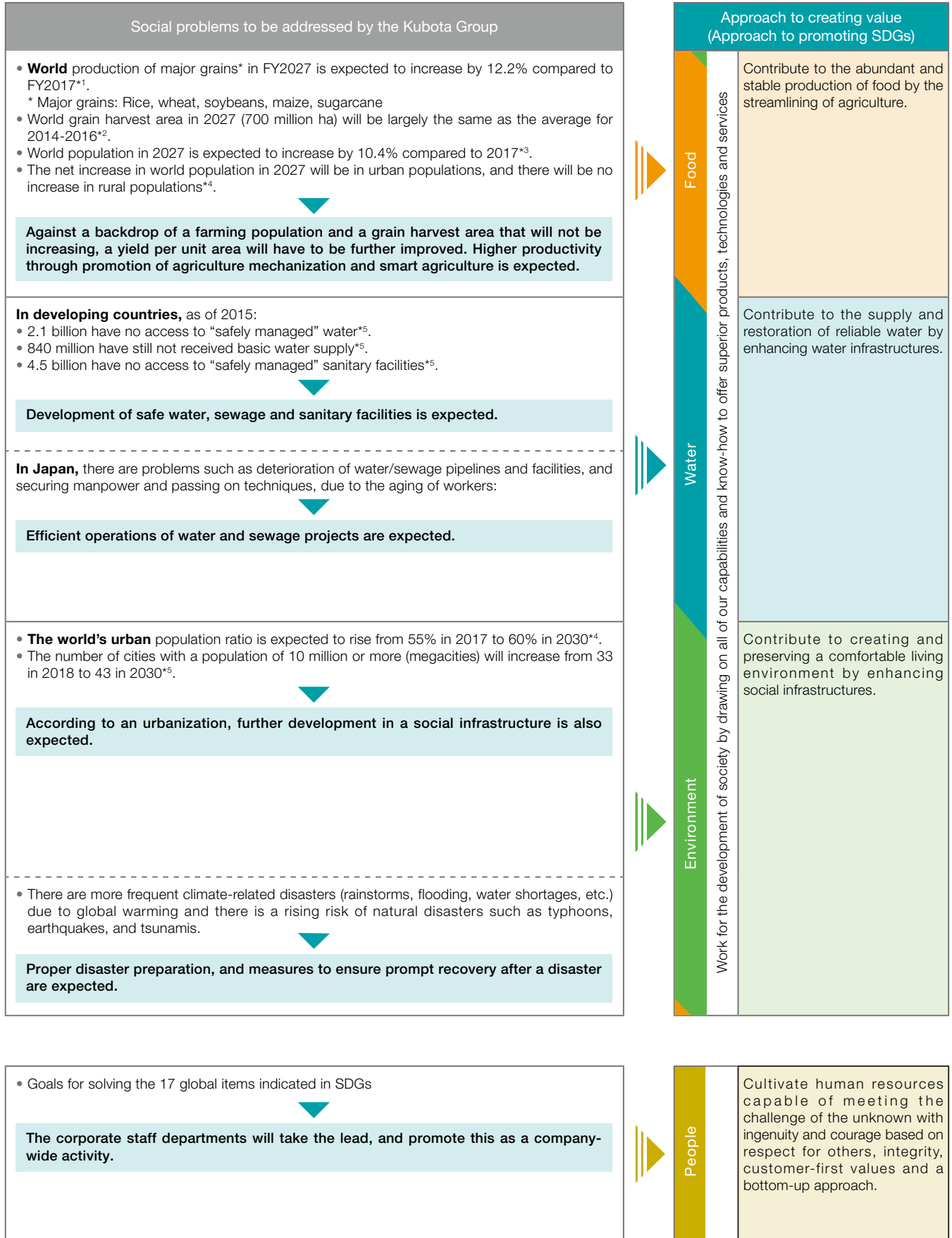








# Social Problems to be Addressed by the Kubota Group and




Sources: \*1 FAOSTAT, Food and Agriculture Organization of the United Nations  
 \*2 World food supply and demand projections to 2027, Policy Research Institute, Ministry of Agriculture, Forestry and Fisheries (March 2018)  
 \*3 World Population Prospects 2017, United Nations  
 \*4 2018 Revision of World Urbanization Prospects, United Nations  
 \*5 Progress on Drinking Water, Sanitation and Hygiene 2017, WHO/UNICEF  
 \*6 Design-Build-Operate system, in which everything from design and construction to operation and maintenance are all contracted out to a single private business  
 \*7 Demonstration businesses spearheaded by the Ministry of Land, Infrastructure, Transport and Tourism (MLIT) since 2011 to promote the use of innovative sewage technology

# Contributions to SDGs

Main related SDGs	The Kubota Group's SDGs KPI	Examples of main initiatives for achieving KPIs in FY2020
 	<ul style="list-style-type: none"> <li><b>Contribution to food production through further spread of agricultural machinery</b></li> <li>Promotion of smart agriculture using IoT and robot technologies (Kubota Smart Agri System (KSAS))</li> </ul>	<ul style="list-style-type: none"> <li>Trial start of agricultural machinery sharing service to assist new farmers and expand business scale</li> <li>Opening of Kubota's Farm on roughly 350,000m<sup>2</sup> of land in Thailand as a community-based demonstration farm to help develop local agriculture</li> <li>Partnership with a local company and commencement of mass production of tractors at production sites in India, the world's largest farm machinery market</li> <li>Expansion of lineup—from 28 through to 60 horsepower—of straight self-steering tractors for the domestic market</li> <li>Continuation of development of battery-powered tractors</li> <li>Unveiling of full-size "dream tractor" concept model based on the theme of agricultural sustainability</li> <li>Expansion of partnerships with, and equity stakes in, companies worldwide that possess proprietary technology in order to accelerate the shift to smart agriculture</li> </ul>
 	<ul style="list-style-type: none"> <li><b>Contribution to the development of sustainable water infrastructure by offering more products, technologies, and services relating to water, sewage and water treatment facilities.</b></li> <li>Contribution to efficient operations in the water environment field by exploiting all-around abilities and IoT in water-related products, water treatment technology, mapping/design technology, construction and other areas</li> </ul>	<ul style="list-style-type: none"> <li>Founding of a fellowship for young researchers at Japanese universities to engage in research on futuristic water supply topics</li> <li>Delivered submerged membranes and <i>Johkasou</i> to improve the water environment in China and Southeast Asia</li> <li>Kubota's KTZ-type large <i>Johkasou</i> for treating household wastewater from large buildings outside of sewage works areas received the Chairman's Award at the 46th Outstanding Environmental Systems Awards hosted by the Japan Society of Industrial Machinery Manufacturers</li> <li>Participation in water treatment plant construction for the city of Hirosaki under a DBO<sup>6</sup> contract, as well as participation in operation management business for the city's waterworks</li> <li>Order from the city of Hiroshima for the construction, operation, and maintenance of a water supply monitoring system that uses KSIS to integrate water supply monitoring with a cloud-based mapping system</li> <li>Participation in MLIT's B-DASH Project<sup>7</sup> with a demonstration business that leverages IoT- and AI-driven technology for efficient preventive maintenance and management of manhole pumps</li> </ul>
 	<ul style="list-style-type: none"> <li><b>Contribution to the development of environment-friendly, sustainable urban infrastructure</b></li> <li>Contribution to development of sustainable, resilient urban infrastructure that is resistant to disasters</li> </ul>	<ul style="list-style-type: none"> <li>Development of large-scale industrial diesel engines—alongside the continued development of the 200 HP range, development is underway on the 300 HP range, Kubota's most powerful class</li> <li>Currently proceeding with development of micro hybrid engine</li> <li>Development of a smartphone app to streamline construction machinery repairs</li> <li>Start of building of a new manufacturing site in the US for small construction machinery with the goal of further promoting of those in that area</li> <li>Ongoing development of eco-friendly construction machinery (battery-powered small construction machinery)</li> <li>Participation in the Japan Hydrogen Association to promote global partnerships and the creation of hydrogen supply chains with the goal of utilizing hydrogen to help lower CO<sub>2</sub> emissions</li> <li>Start of joint demonstration testing on the effectiveness of organic fertilizer produced from domestic animal waste by harnessing the power of insects</li> <li>Delivery of extra-large diameter (2600 mm) earthquake-resistant ductile iron pipes (US-type, R method) to the Tokyo Metropolitan Government</li> <li>Delivery of drainage pump vehicles for flood disaster relief to MLIT, MAFF, and municipal governments</li> <li>Development of an AI-powered diagnosis system for use on river and waterway pump gates for flood prevention</li> </ul>

Common points for food, water and the environment:  
Expansion of eco-products (sales ratio of eco-products)

Sales ratio of Eco-Products for FY2020: 66.2%

	<p>Endeavoring to improve indicators in the categories of quality assurance, environment, procurement, safety, and personnel</p>	<p>(Quality Assurance) Number of recalls: 3 cases                      (Environment) CO<sub>2</sub> emissions from the Kubota Group in Japan: 26.3% reduction compared to FY2014                      (Procurement) Promotion of CSR procurement: CSR procurement questionnaire survey conducted at 170 suppliers; response to the regulations of conflict minerals                      (Safety) No class-A incidents: Not achieved                      (Personnel) Percentage of employees with disabilities: 2.44%                      Percentage of employees taking childcare leave: 59.1% (male)/100% (female)                      Attainment of Health KUBOTA 21 targets: promoting activities toward 2022 targets</p>
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 For more information on the 17 SDGs, see:  
<https://www.un.org/sustainabledevelopment/sustainable-development-goals/>