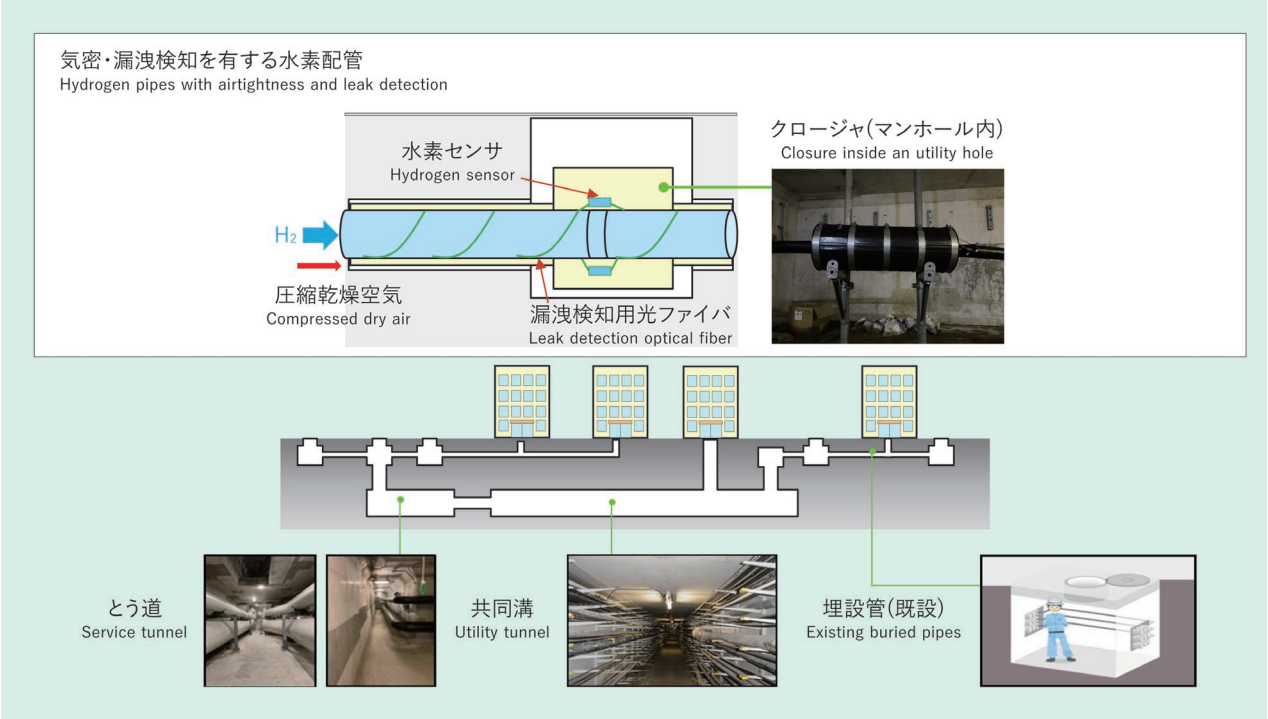
Hydrogen transport costs can be reduced

Hydrogen-transportation technology

Background and Technical Challenges

Safe hydrogen delivery is essential for the hydrogen economy, while current methods such as tanker transport and new pipeline construction remain costly. We will repurpose communication technologies to ensure safety and use existing underground spaces for hydrogen pipelines, enabling safe and cost-effective supply.



R&D Goals and Outcomes

By using hydrogen pipelines equipped with communication technologies within existing infrastructure, we aim to establish a hydrogen supply chain and promote a hydrogen economy.

Key Technologies

01 Core Technologies

Hydrogen can be supplied without odor using transport pipes with airtight and partition functions and a composite detection method.

02 Key Differentiators

Compared with the conventional steel pipe supply method, initial costs can be reduced by half and running costs by approximately one-third.

Use Cases	Energy	**R&D phase**	Development
Technology Schedule	FY27 – 29	**Commercialization Schedule**	After FY30

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