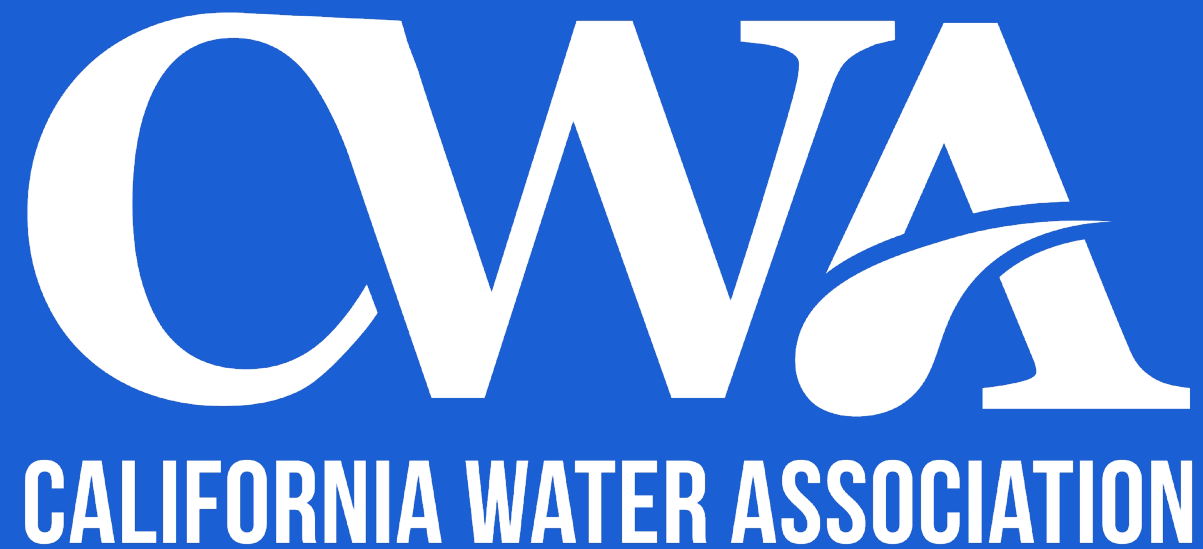


HOT TOPICS IN THE WATER SECTOR 🔥💧

NARUC SUMMER POLICY SYMPOSIUM

July 14, 2024

CALIFORNIA WATER ASSOCIATION



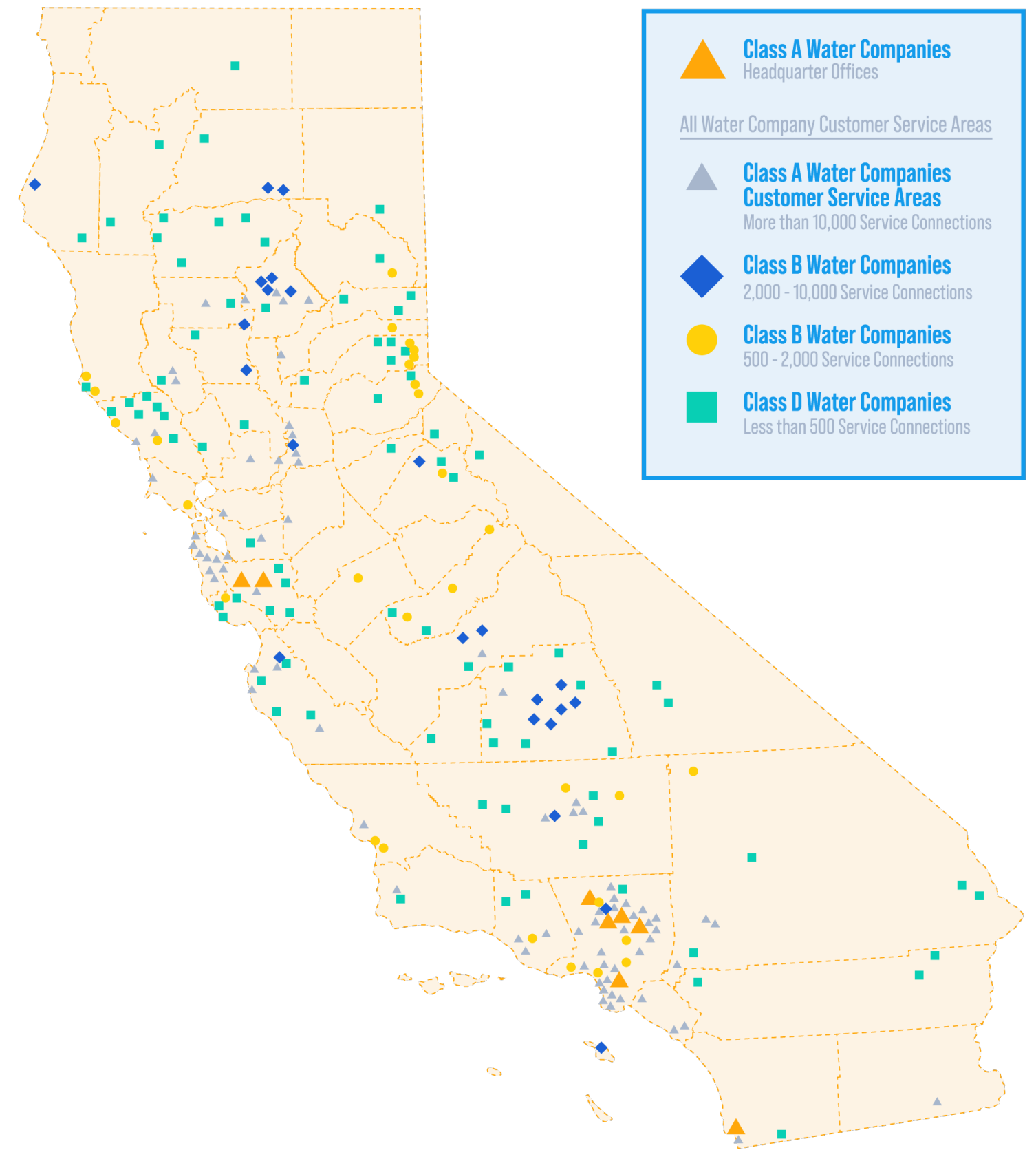
- Statewide association for California's regulated water utilities
- Educates and encourages best practices in the water industry
- Serve as a voice on behalf of regulated water
- Provide regulatory assistance

WHO DO WE REPRESENT?

90+
regulated
water
utilities

15% of
Californians
served

6+ million
customers



LEXIS NEXIS 50 MOST INNOVATIVE INDUSTRIES RANKING

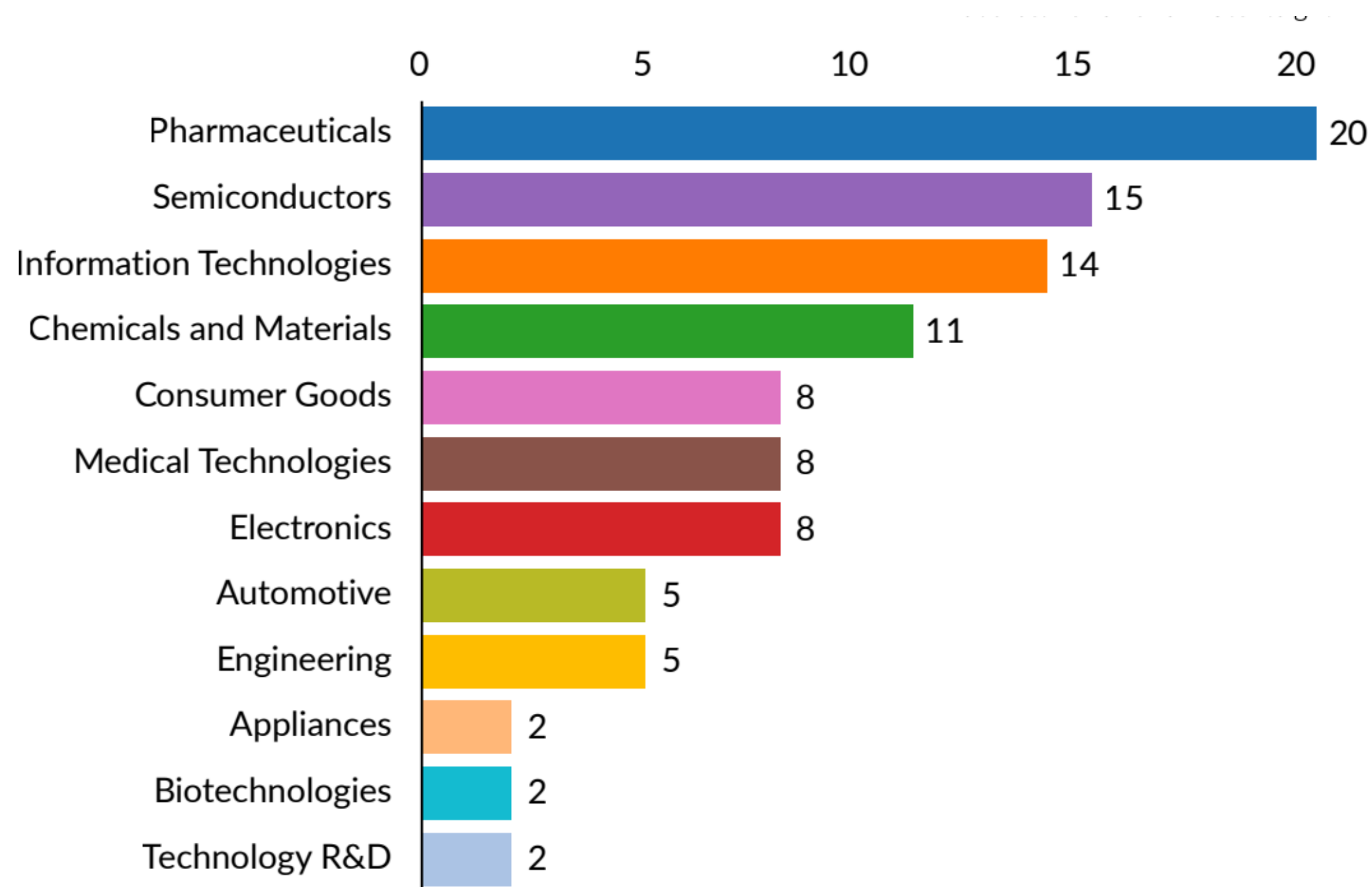
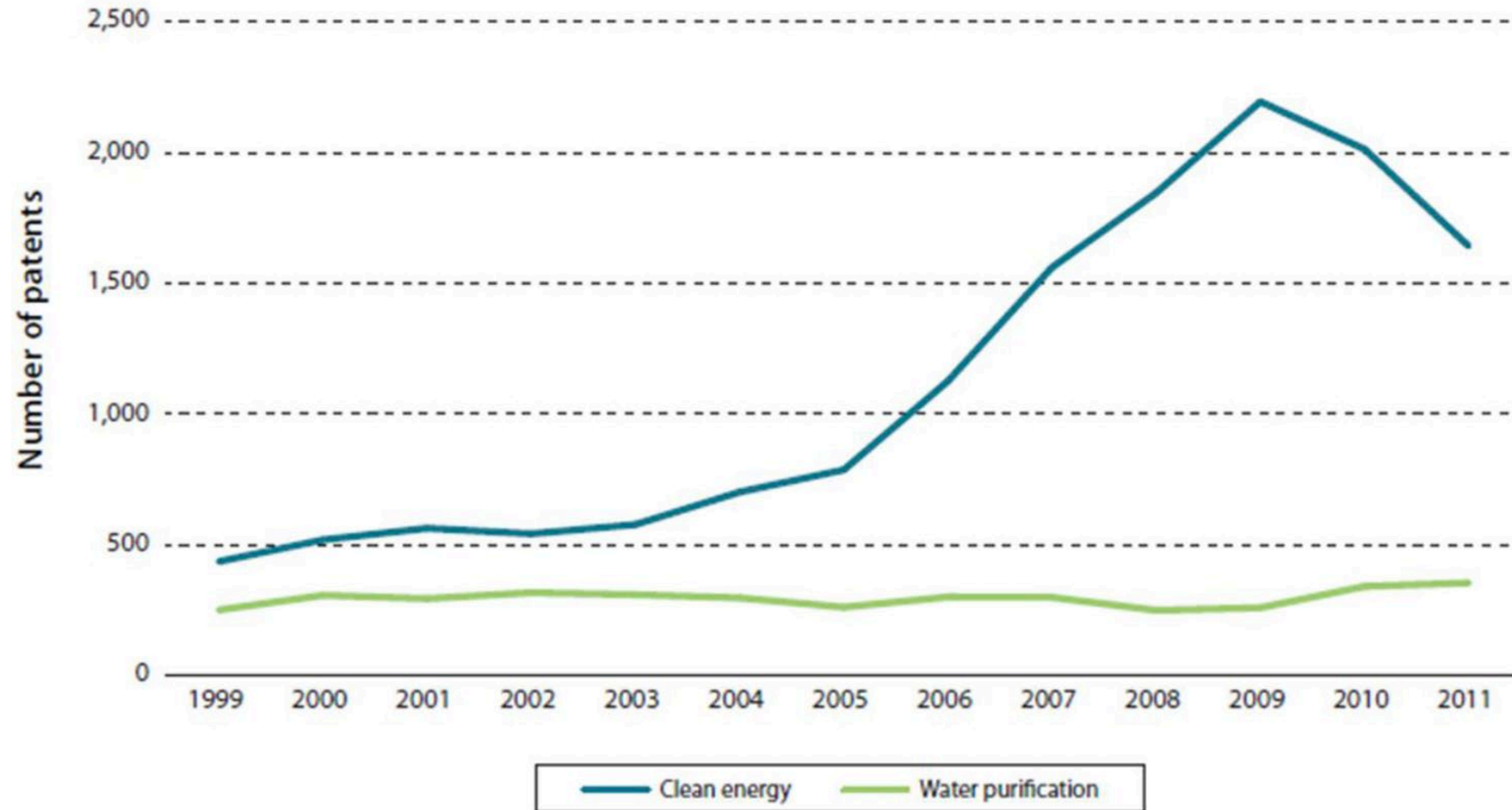


Figure 3: The number of Top 100 innovators per industry sector.

FIGURE 2.

Comparison of U.S. Patents Filed under the Patent Cooperation Treaty for Clean Energy and Water Purification, 1999–2011



Source: Organisation for Economic Co-operation and Development (OECD) 2014.

Note: Clean energy = biomass generation + energy efficiency + energy storage + geothermal + hydro & marine power + solar + wind; and water purification is the primary contributor to patent filings in the water sector.

REASONS FOR THE INNOVATION DEFICIT

FUNDING

REGULATION

CONSERVATISM

LEGACY TECHNOLOGIES

STRUCTURE OF THE WATER SECTOR

20TH CENTURY APPROACH TO WATER MANAGEMENT

Developed based on:

- Water abundance
- Hydrological reliability
- Steady and perpetual demand growth



21ST CENTURY SYSTEMS REQUIRE FRESH THINKING

Changes resulting from:

- Less Funding
- Increased regulatory action
- Scientific advances
- Climate change



WATER TECHNOLOGY SECTORS

WATERSHED/ SUPPLY CHAIN

- Real-time water quality and quantity
- Predictive analytics
- Integrated water and energy management

OPERATIONS

- Predictive Analytics
- Water Quality
- Smart hardware
- System monitoring and management
- Regulatory Management

CUSTOMERS/ COMMUNITIES

- Customer engagement and analytics
- Conservation and water use management
- Water quality monitoring

INPIPE ENERGY

Producing renewable energy from existing water pipeline infrastructure

- Reduces carbon footprint
- Additional revenue stream



HDATA

Digitization of all State and Federal regulatory information

- Utility filings and rate cases as well as rulings and reports

Using AI to automate filings and search function

- Search for specific topics, data, or utilities
- AI analysis of previous reports, filings, and rulings

Automated Compliance and Business Strategy



FLUME WATER

Smart home water sensor installed on individual residential homes

- Monitors water use every 5 seconds
- Provides real-time water use information, including leaks, to customers on smart phones
- Provides community-wide insights and water use analysis to utilities and wholesalers

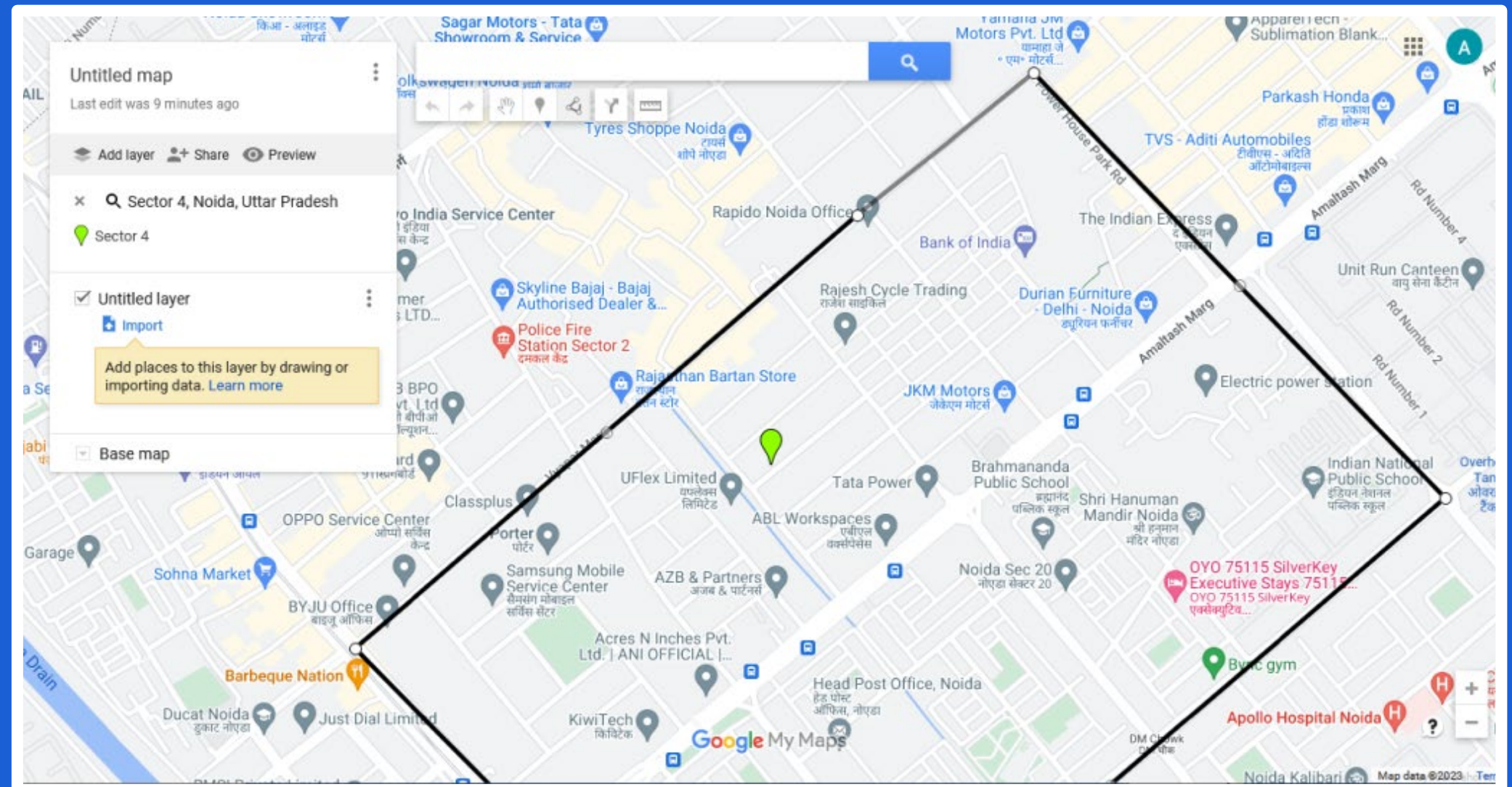
Allows for improved long-term planning and conservation program assessment

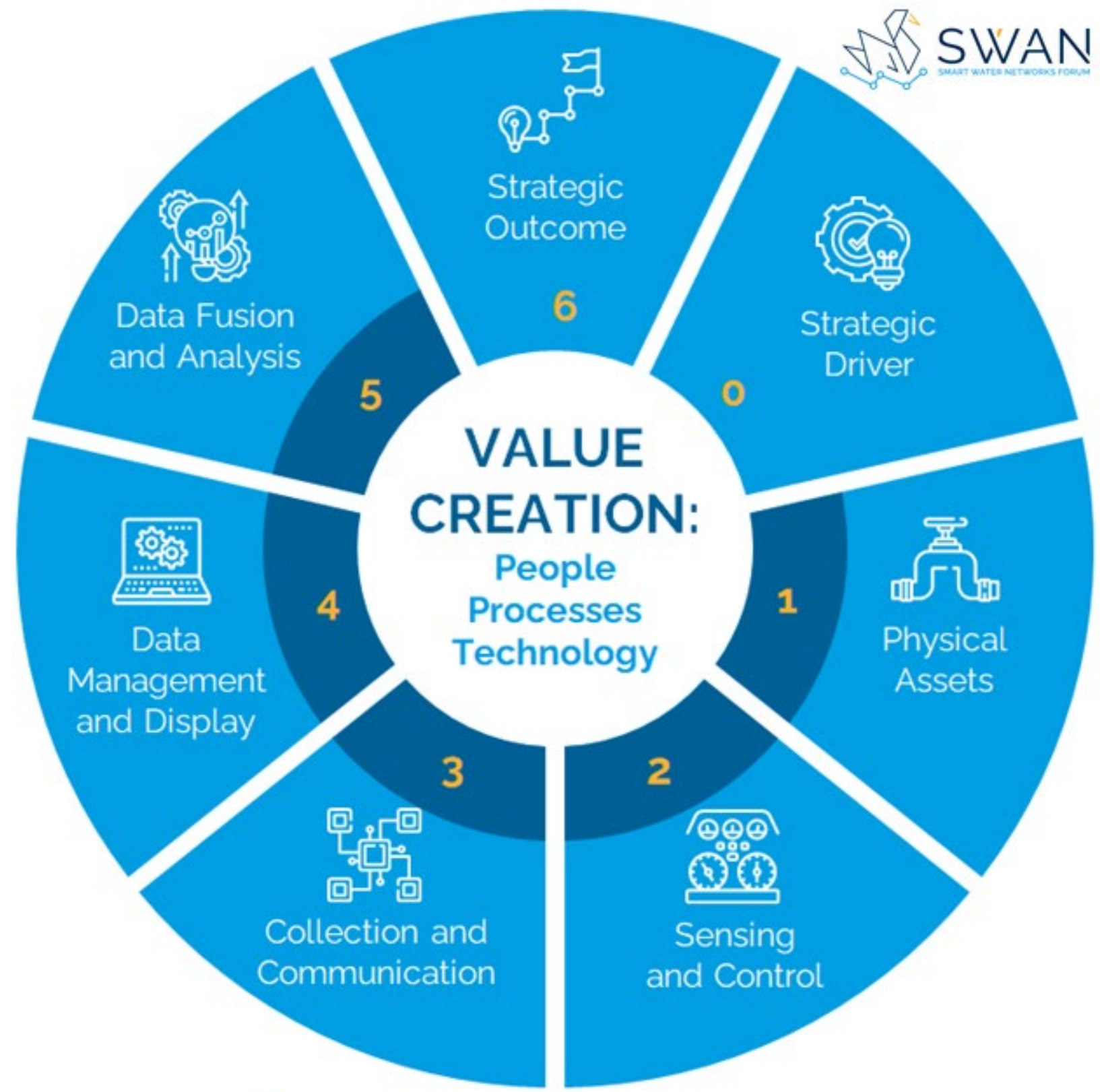


YO PPIFY

Communication innovations are vital in a modern world

- Reach people where they are
 - Cell phone, email, phone call, post cards
- Communicate with the right people
 - When a pipeline breaks, you don't need to notify 2,000 people if only 100 lose service
- Communicate in a timely way
 - Don't want people to first hear about the issue on the news





● User and Technical Interaction

INNOVATION REQUIRES A CULTURE OF CHANGE

THANK YOU!

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