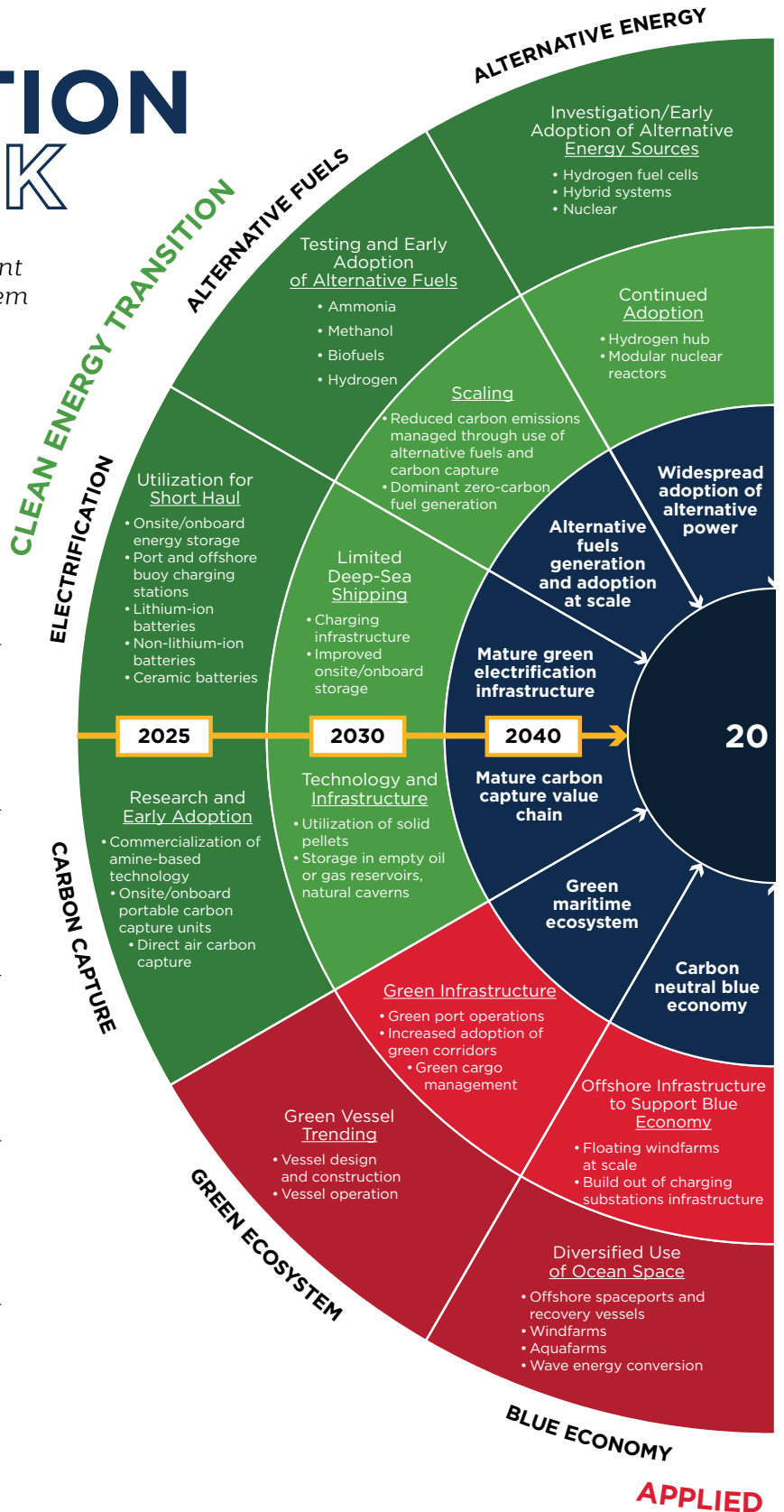


# INNOVATION OUTLOOK

Sustaining Innovation for a Net-Zero Carbon Environment Enabled by a Digital Ecosystem



**ALTERNATIVE ENERGY | Widespread Adoption of Alternative Power**

- Increased prevalence of hydrogen fuel cells, hybrid systems and nuclear energy
- Improved efficient power generation technology from alternative energy sources
- Safe and sustainable byproduct waste management

**ALTERNATIVE FUELS | Alternative Fuels Generation and Adoption at Scale**

- Global adoption of low- and zero-carbon fuels
- Scaled up zero-carbon fuel generation and distribution
- New efficient zero-carbon fuel engines

**ELECTRIFICATION | Mature Green Electrification Infrastructure**

- Expansion of electrification infrastructure
- Improved storage for short haul and deep-sea use
- Enlargement of distribution substation network

**CARBON CAPTURE | Mature Carbon Capture Value Chain**

- Global adoption of carbon capture technologies
- Increased reach of carbon capture transport network
- Expansion of storage infrastructure

**GREEN ECOSYSTEM | Green Maritime Ecosystem**

- Green trending for manufacturers, shipyards and ports
- Certified green ships and operators
- Green labeled ship cargo

**BLUE ECONOMY | Carbon Neutral Blue Economy**

- Increased installation of blue technologies: space ports, aquafarms and wave energy generators
- Continued development of offshore charging substations infrastructure
- Floating offshore windfarms at scale

Source: ABS Technology Trends. Exploring the Future of Maritime Innovation

