



Mohammed Al-Naimi, Abdulaziz Al-Balushi, Noof AlNassr, Deena Al-Hail, Shaikha Al-Burshaid

Problem

- ❖ Qatar produces approximately 1.4 kg/person of solid waste per day, with 13-14% of it being plastic
- ❖ Qatar's heavy dependence on single-use plastics

Qatar Goals

- ❖ Environmental Protection
- ❖ Waste Management Improvement
- ❖ Resource Conservation
- ❖ Sustainable Development
- ❖ Leadership in environmental Innovation

Proposed Solutions

- ❖ Biodegradable plastic use
- ❖ Install waterway filters to trap plastic waste
- ❖ Develop plastic-to- fuel conversion methods
- ❖ Upgrade plastic recycling facilities with advanced sorting technology

Chosen Solution

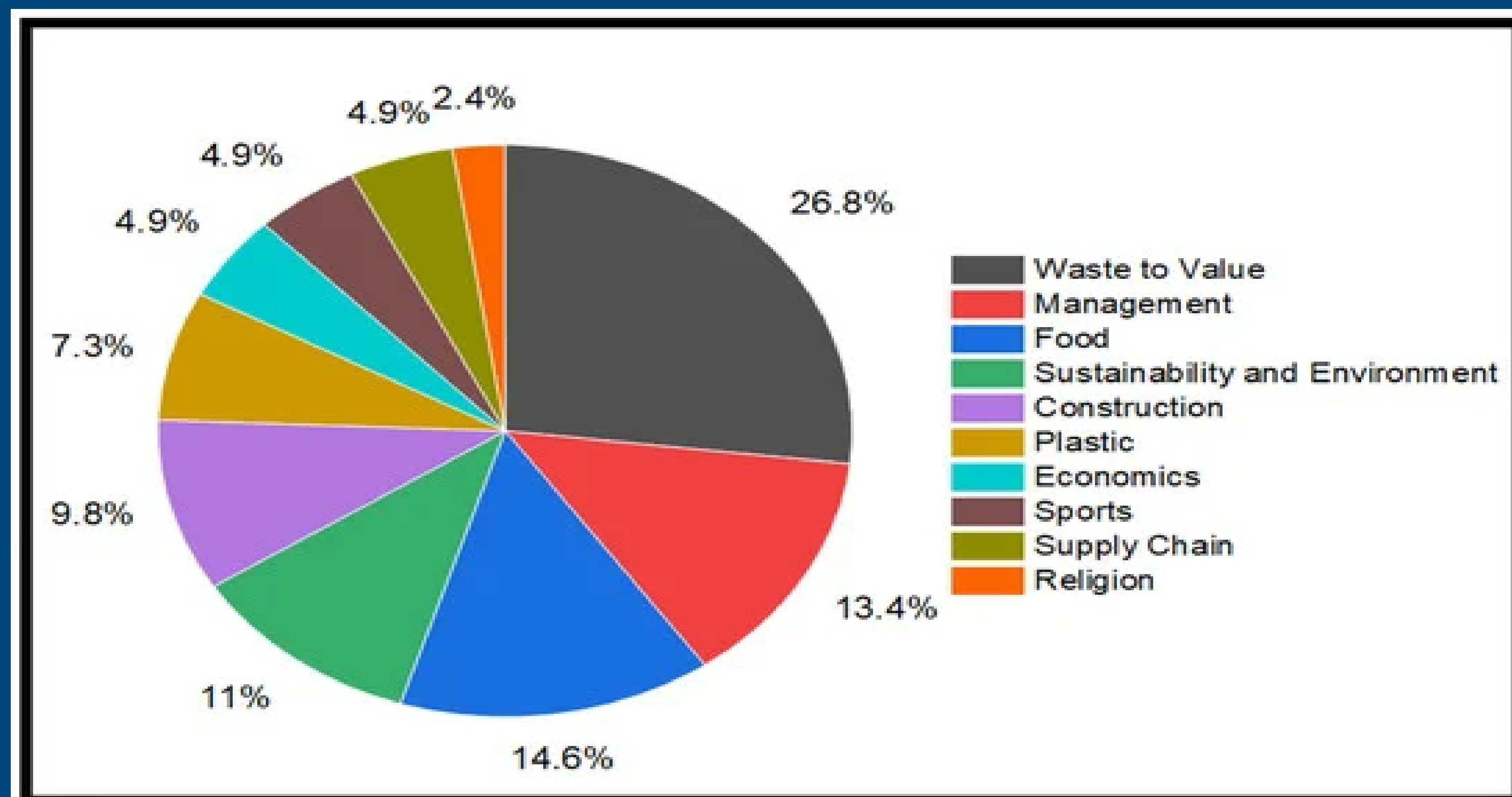


Biodegradable plastic

Advantages of Biodegradable plastic



- ✓ Faster decomposition
- ✓ Reduced environmental impact
- ✓ Preservation of ecosystems
- ✓ Decreased pollution



The main ten themes from this systematic literature review on Qatar waste management

Recommendations

Promote Reusable Alternatives of plastic

Encourage the use of reusable alternatives to single-use plastics, such as reusable shopping bags, water bottles, and containers.

Benefits

- ✓ Environmental protection
- ✓ Health benefits
- ✓ Economic benefit
- ✓ Better quality products
- ✓ Better for wildlife



Plastic recycling

Benefits:

- ✓ Reduces Pollution Across Ecosystems
- ✓ Requires Less Energy and Helps Conserve Natural Resources
- ✓ Saves Fast-depleting Landfill Space
- ✓ Eases the Demand on Fossil Fuel Consumption
- ✓ Promotes a Sustainable Lifestyle

