



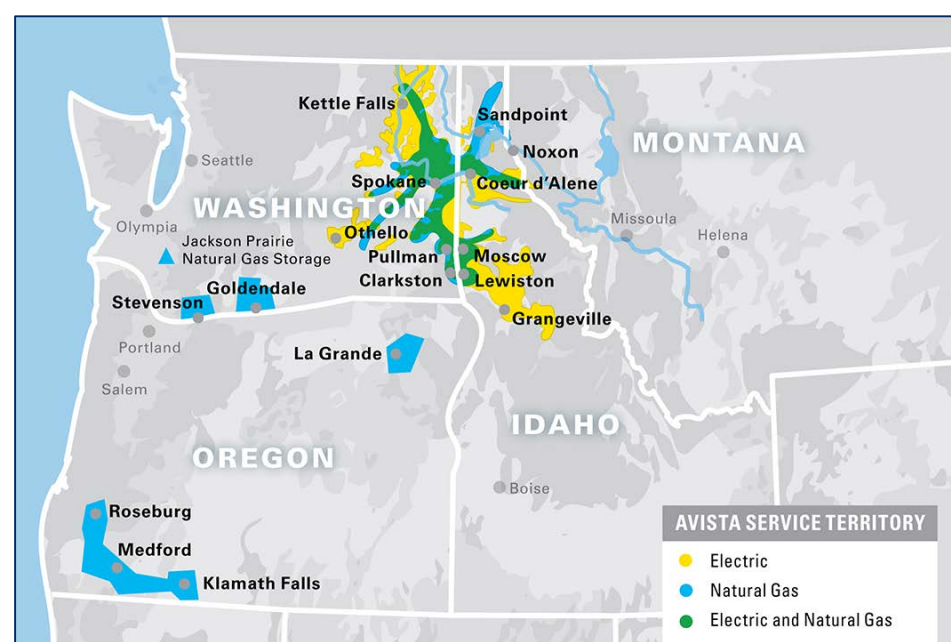
# Delivering Natural Gas Our Experience

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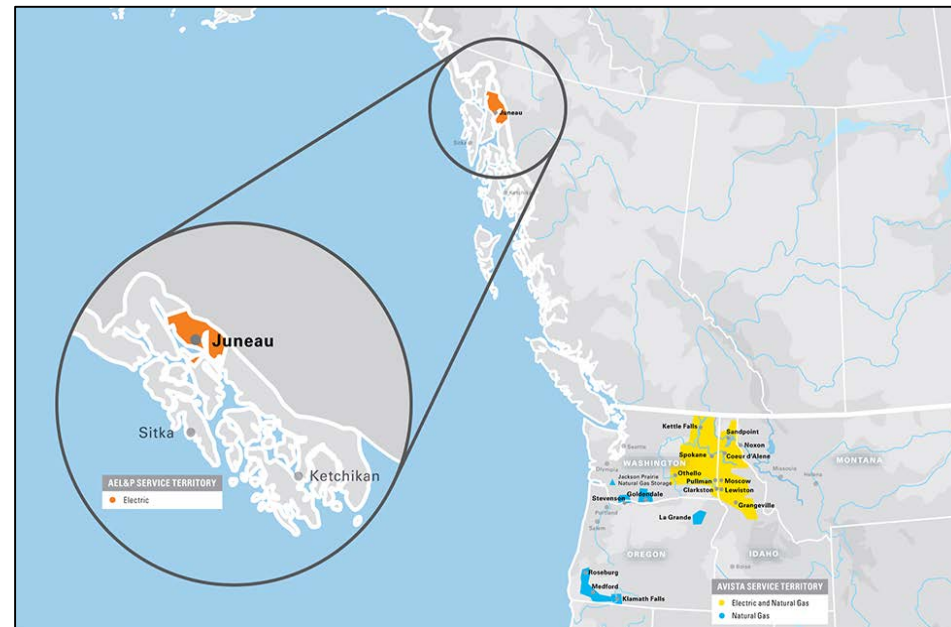
Founded 1889

- Serves electric and natural gas customers Washington, Idaho, Oregon
  - 369,000 electric customers
  - 329,000 natural gas customers

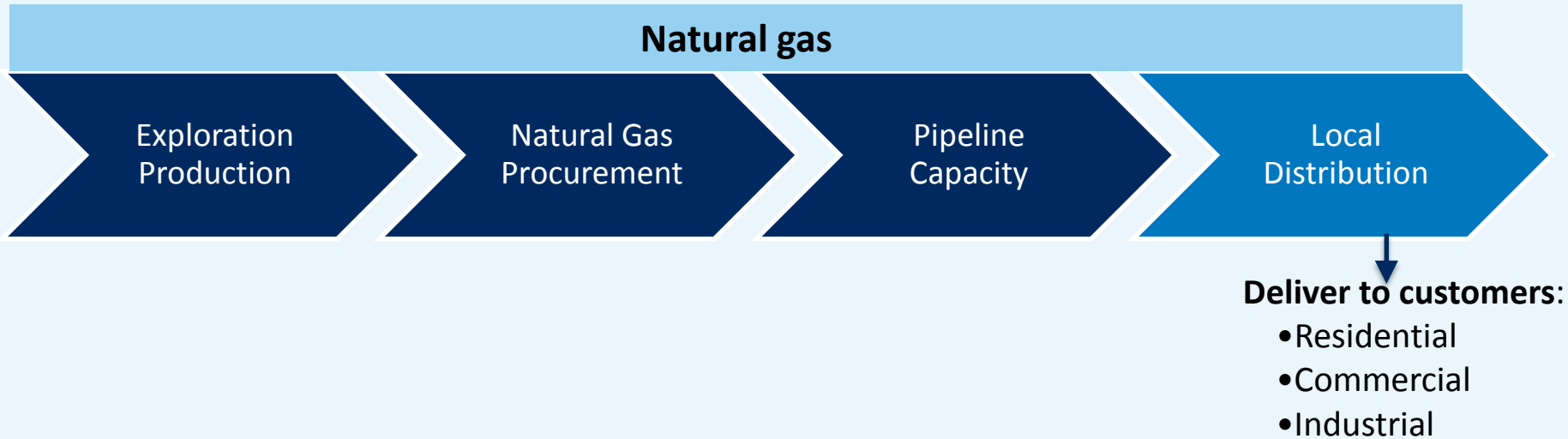


Founded 1893

- Serves electric customers in Juneau, Alaska
  - 16,000+ electric customers



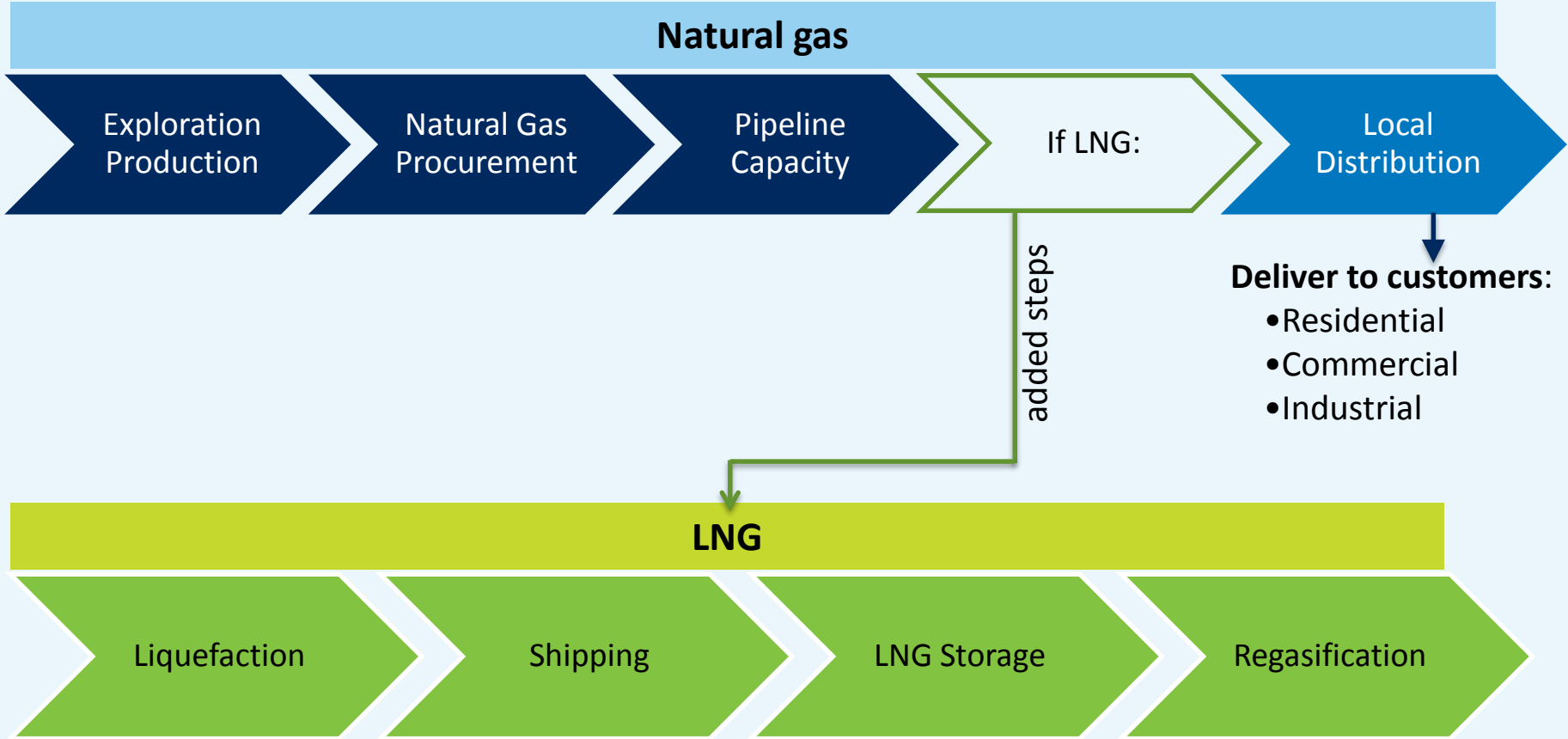
# Traditional natural gas utility supply chain



## Key functions of natural gas utility

Customer service	Safety - e.g., leak detection	Regulatory
Engineering design	Compliance	Policy
Permitting	Meter reading	Rate design
Construction	Billing	Resource planning
Maintenance	Accounting, Finance	Public awareness
Service calls	Sales, marketing	Energy efficiency

# Non-traditional utility served by LNG supply



# LNG added steps - illustrative

## LIQUEFACTION



Gas is liquefied through super cooling process



## SHIPPING



Liquefied gas is moved in ships to storage destination



## STORAGE / REGAS



LNG is stored & regasified when needed

# Our due diligence

## Uniqueness of Southeast Alaska

### Area of study

Natural gas demand & residential survey

Natural gas supply chain optimization

Commercial interviews

Economic impacts of natural gas in Juneau

Gastineau Channel & service to Douglas Island

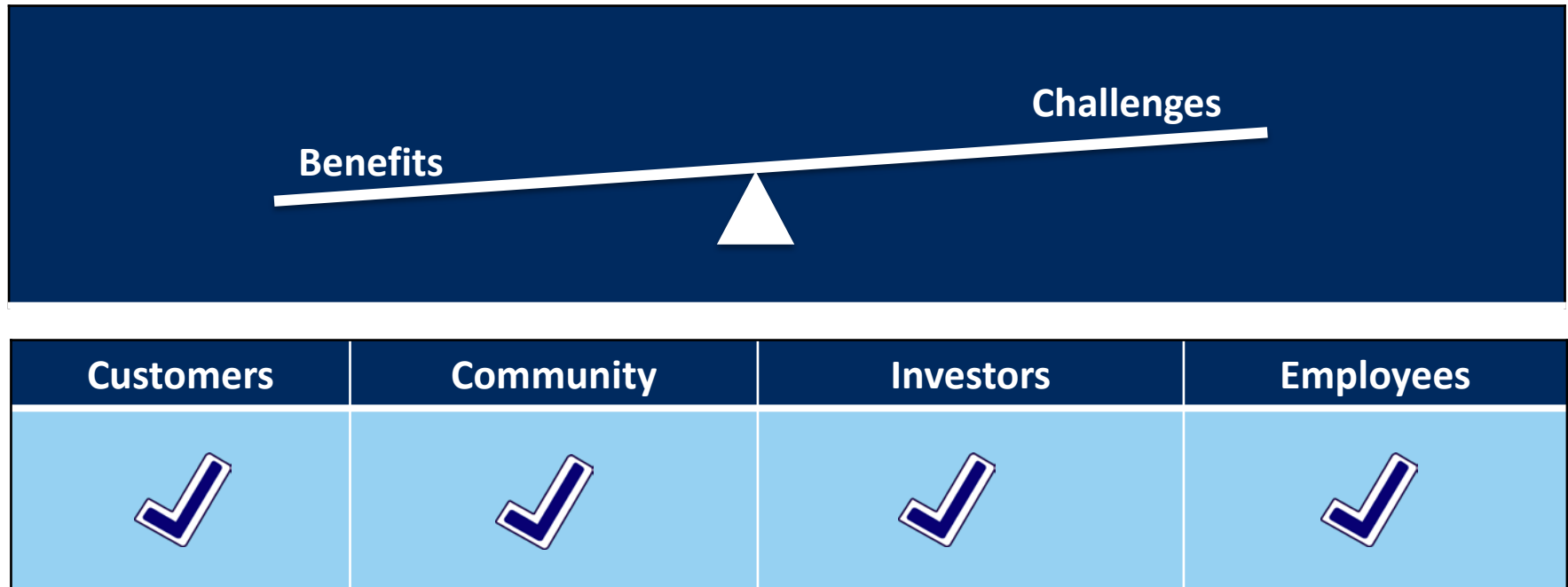
Engineering cost estimate, design & permitting

LNG supply & shipping logistics – RFI

Other & ongoing



# “Net benefits” of natural gas





*video link*



***Avista ~ experience matters***



# Thank You

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