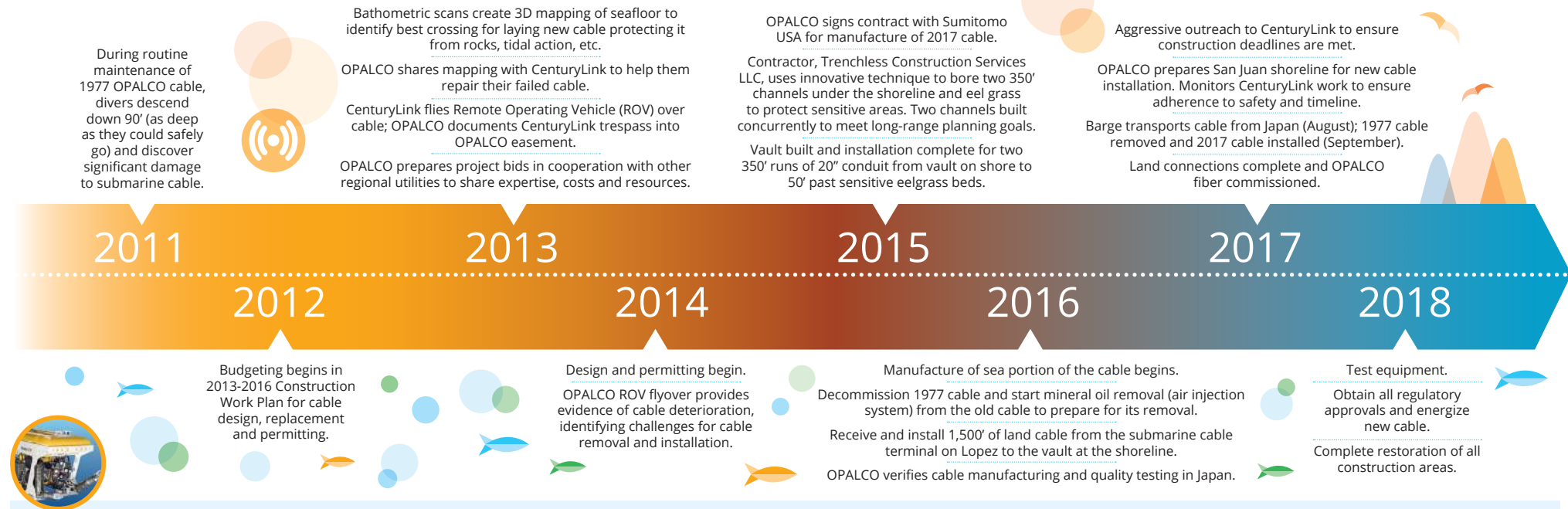


2017 Submarine Cable Replacement Project

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FUN FACTS

- Location: Lopez to San Juan island crossing
- Length: approx. 13,596' in one continuous piece (2.6 miles)
- Ocean depth: down to approx. 280' (Cable rated to depth of 390')
- Boring length under eel grass and sensitive archeological areas: approx. 350' with 20" diameter conduit
- One of two submarine cables in this crossing for redundancy
- Cable includes three phases of electrical conductor and 144 strands of fiber optic cable to meet members' energy and communications needs for next 50+ years
- Each cable can independently carry the entire electric load of San Juan Island and associated islands (Brown, Pearl, Henry, Spieden)
- Load capacity: 50 MW continuous load, 60 MW peak load
- Rated AC Voltage between Phases 120,000 Volts (120 kV)
- Cable weight in air 33 lb/ft.; total weight before installation (on spool) is 400 metric tons
- Submarine Cable replacement is estimated to cost \$15M
- 20 years of 2017 cable will yield enough power to pay for itself 2x over (calc based on 72K volts — average 200 amps on a 24/7 basis — cost of power flat)