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California Offshore Wind Wildlife & Habitats Research Framework

IEPR Commissioner Workshop on Offshore Wind

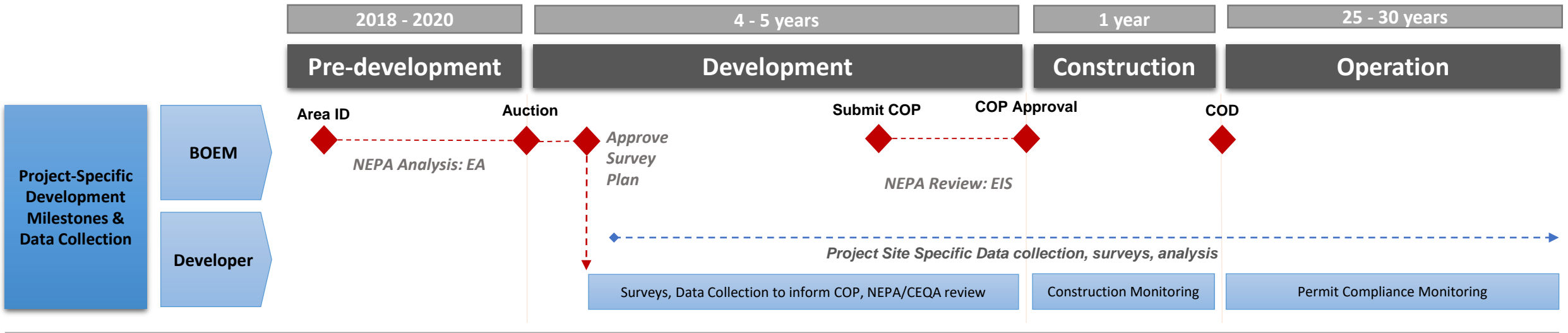
October 3, 2019

Need for a comprehensive approach

- Challenge posed by climate change requires transforming our energy sector to 100% clean, reliable, affordable energy; SB100 establishes mandate for California to achieve this goal;
- Offshore wind has significant potential to contribute to diverse renewable energy portfolio needed to decarbonize California's electric system; 2019 E3 study found CA will need 9 GW of offshore wind to meet goals;
- Offshore wind is an established and proven technology that is new to California's unique marine ecosystem;
- Harnessing offshore wind at the scale needed to meet California's goals requires a comprehensive approach of similar scale to develop and apply best available science to advance responsible development.

BOEM Offshore Wind Leasing & Development Process & Indicative Timeline

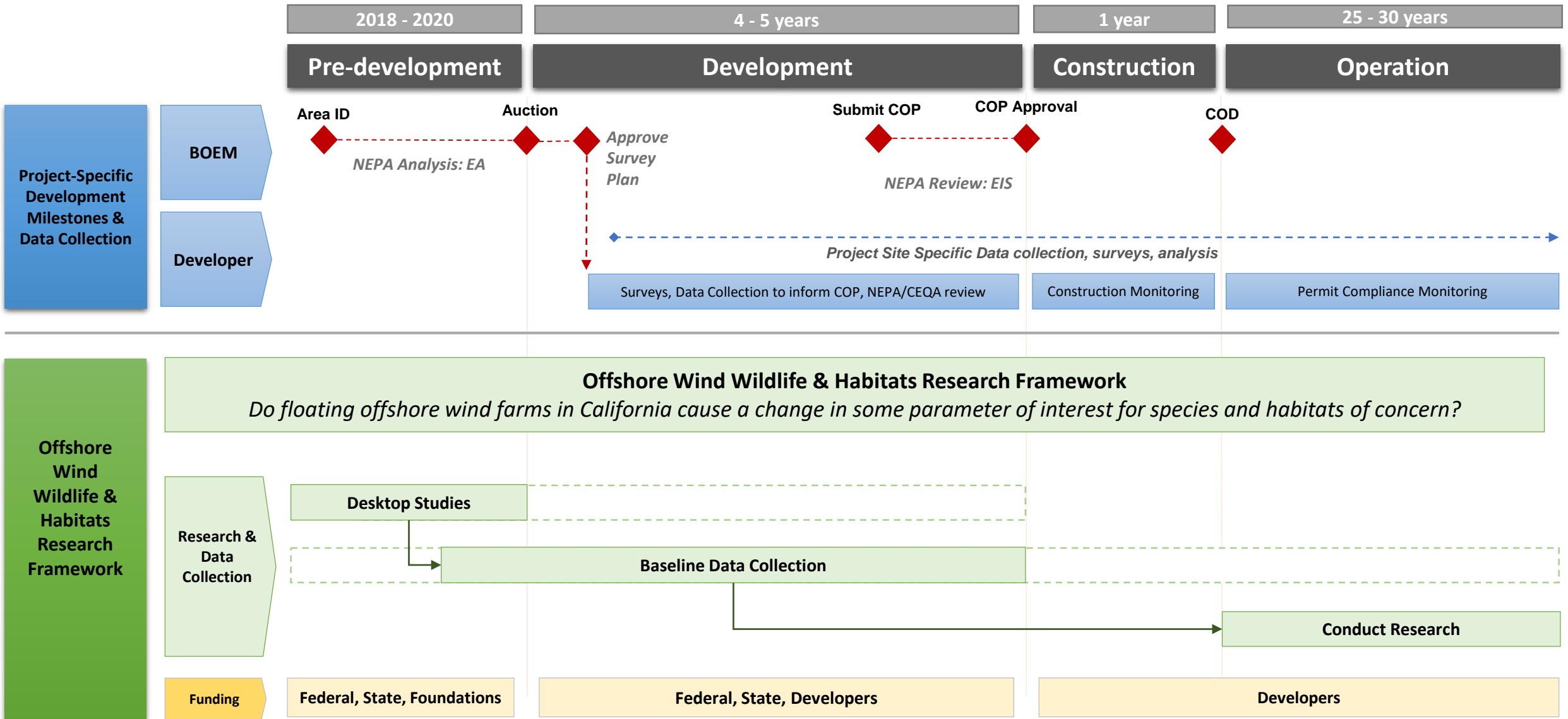
Data collection activities driven by project specific regulatory processes



- 2-3 years of site-specific data collection begins ~ 6 months after lease;
- Site-specific data collection informs COP, NEPA/CEQA review;
- COP submission ~ 3 years after lease auction, ~ 2 year NEPA review;
- ~ 4 years from lease to COP submission;
- ~ 6 years from auction to commercial operation.

Population-level framework approach complements project-specific data collection

Highlights data and information needed at each phase



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Implementation & Recommendations

- Hold series of facilitated workshops beginning in 2020 based on proven models that include NGOs, regulators, developers, subject matter experts to identify, scope, and prioritize key research questions
- Co-convened by offshore wind industry and environmental NGOs to advance responsible development of floating offshore wind in California with minimal impacts to California's iconic coastline and unique marine ecosystem;
- Establish science framework to assess potential long-term, population-level, impacts of offshore wind development to wildlife, habitats, and ecosystem processes;
- Strong state support requested to fund and participate in advisory capacity and leverage federal funding; invest in priority desktop studies and baseline data collection