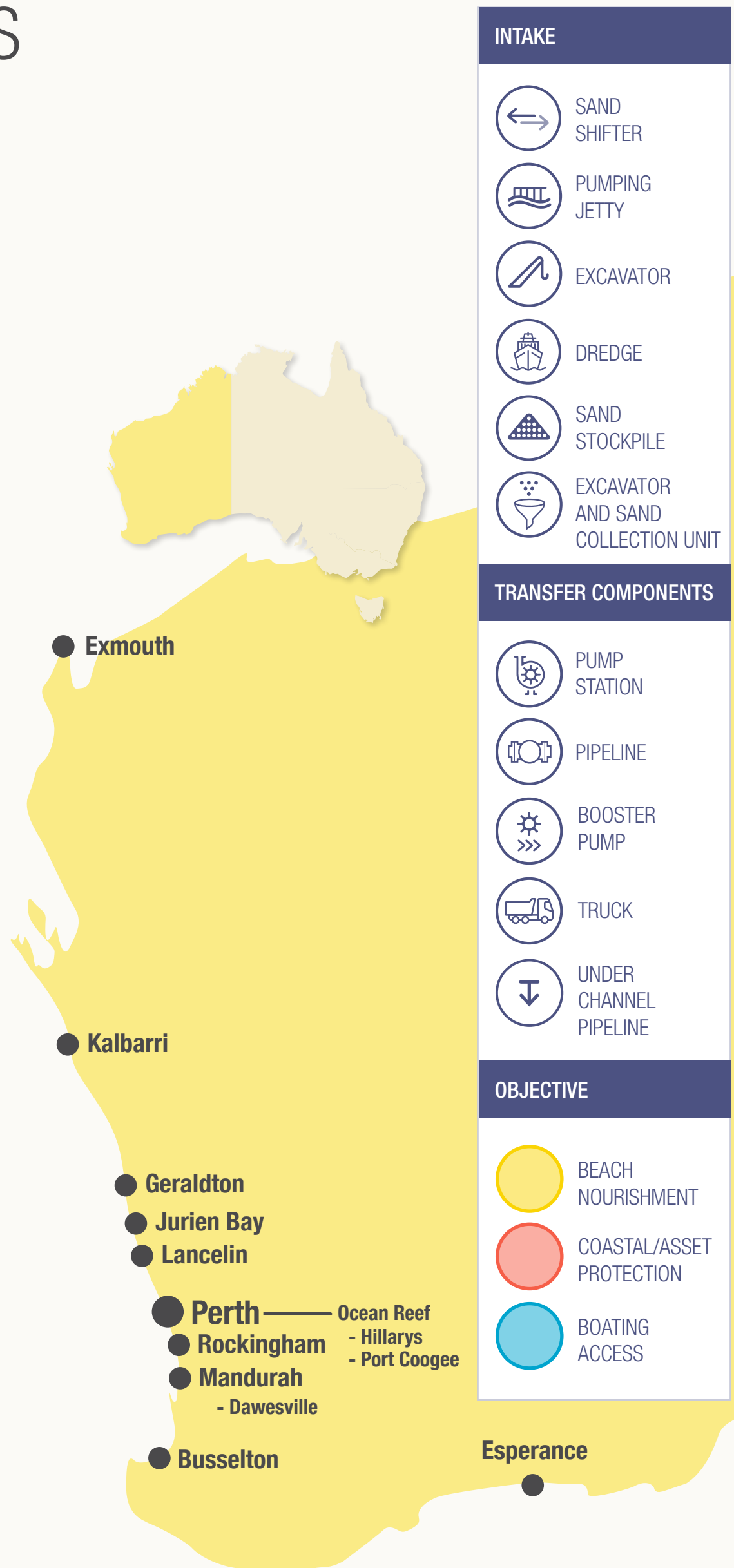


JANUARY 2020

SAND BYPASS + TRANSFER SYSTEMS

WESTERN AUSTRALIA - NORTH TO SOUTH

EXMOUTH *	20,000						
KALBARRI	30,000						
GERALDTON	12,500						
JURIEN BAY*	40,000						
LANCELIN*	10,000						
PERTH Ocean Reef	10,000						
PERTH* Hillarys	10,000						
PERTH* Port Coogee	15,000						
ROCKINGHAM*	15,000						
MANDURAH	100,000						
DAWESVILLE	120,000						
BUSSELTON** Port Geographe	60,000						
BUSSELTON	20,000						
ESPERANCE* Bandy Creek	60,000						



INTAKE

- SAND SHIFTER
- PUMPING JETTY
- EXCAVATOR
- DREDGE
- SAND STOCKPILE
- EXCAVATOR AND SAND COLLECTION UNIT

TRANSFER COMPONENTS

- PUMP STATION
- PIPELINE
- BOOSTER PUMP
- TRUCK
- UNDER CHANNEL PIPELINE

OBJECTIVE

- BEACH NOURISHMENT
- COASTAL/ASSET PROTECTION
- BOATING ACCESS

Sand volume = m³ / yr
 *Bi-annual or tri-annual frequency
 ** Includes sea wrack