

# Climate change impacts on ports

**VAISALA**



**Extreme effects:** Sudden events like severe wind, thunderstorms and heat waves



**Slow-onset effects:** Problematic changes in sea level, wind and waves/swell



**Direct impacts:** Infrastructure damages, safety and health issues, cost of downtime and lost productivity



**Indirect impacts:** Changes in demand due to broader environmental effects on trade and degradation of supporting industries (fishing, energy etc.)