

# Digital transformation in oil and gas

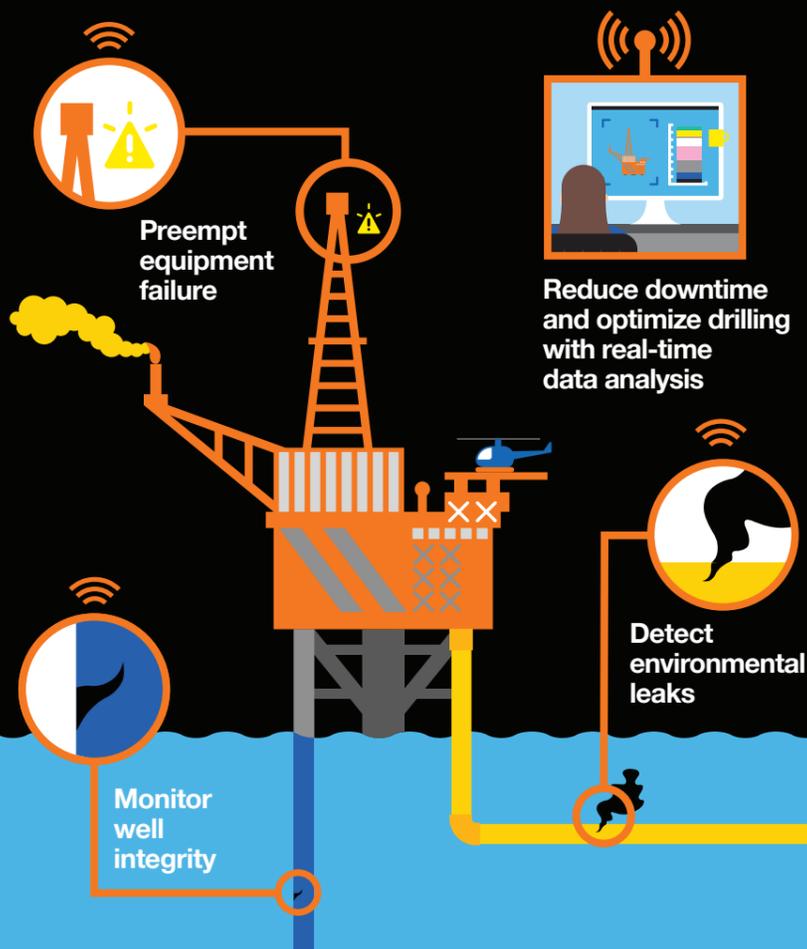
## How IoT can improve asset and operations performance

IoT has the potential to collect data and provide up-to-the-minute snapshots of oil and gas operations. Data insight from smarter, connected equipment will improve your field efficiencies. In addition, IoT can solve problems like equipment hoarding and ensure production happens on schedule.

### 1 IoT in upstream

Exploration and extraction of existing and new, more remote resources demand an IT infrastructure that supports effective operations.

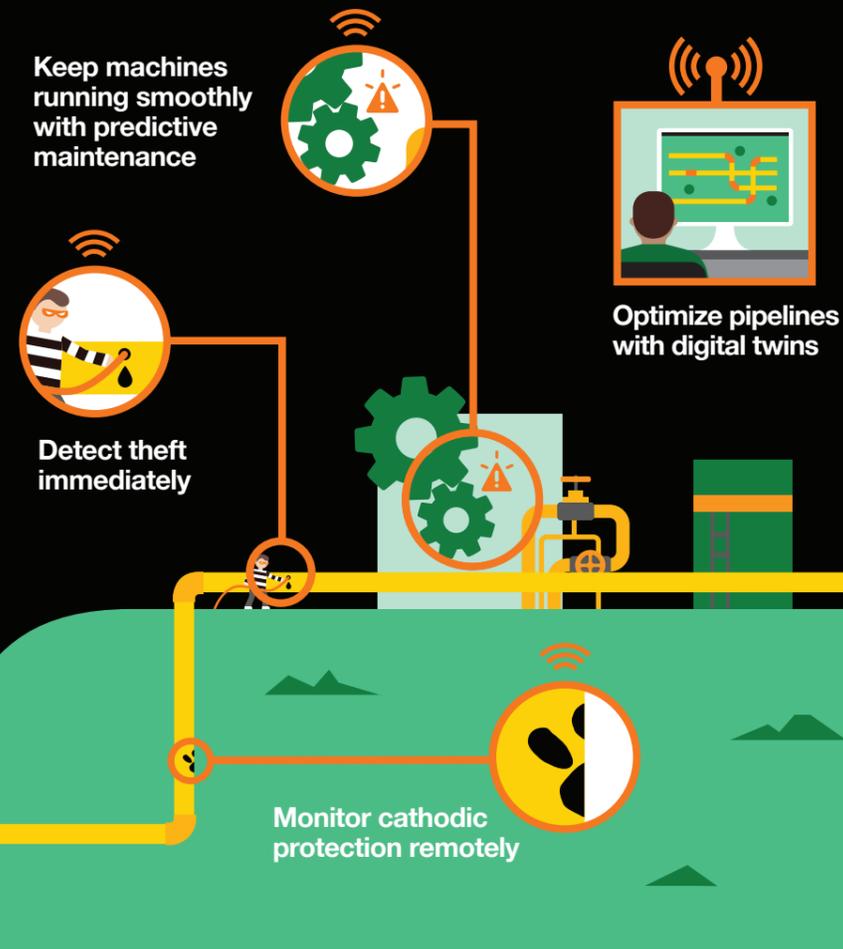
 \$5 million is the annual cost to oil and gas organizations of just 1% of unplanned downtime<sup>1</sup>



### 2 IoT in midstream

Delivery systems are already monitored, but IoT brings a near real-time element to operational control. It also offers far more data that increases the speed and granularity of alerts.

 7 million gallons was lost from pipelines in the US in just the first five years of this decade<sup>2</sup>



### 3 IoT in downstream

IoT can help streamline processes to optimize refineries in downstream. It also plays a key role in optimizing routing in distribution and tracking consumer trends at the point of sale.

 IoT and digital technologies can reduce capital expenditure by 20 percent and operating costs by 50 percent<sup>3</sup>



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Sources  
1. Baker Hughes, The Impact of Digital on Unplanned Downtime, 2016  
2. High Country News  
3. McKinsey Institution, The Next Frontier for Digital Technologies for Oil and Gas, 2016-17