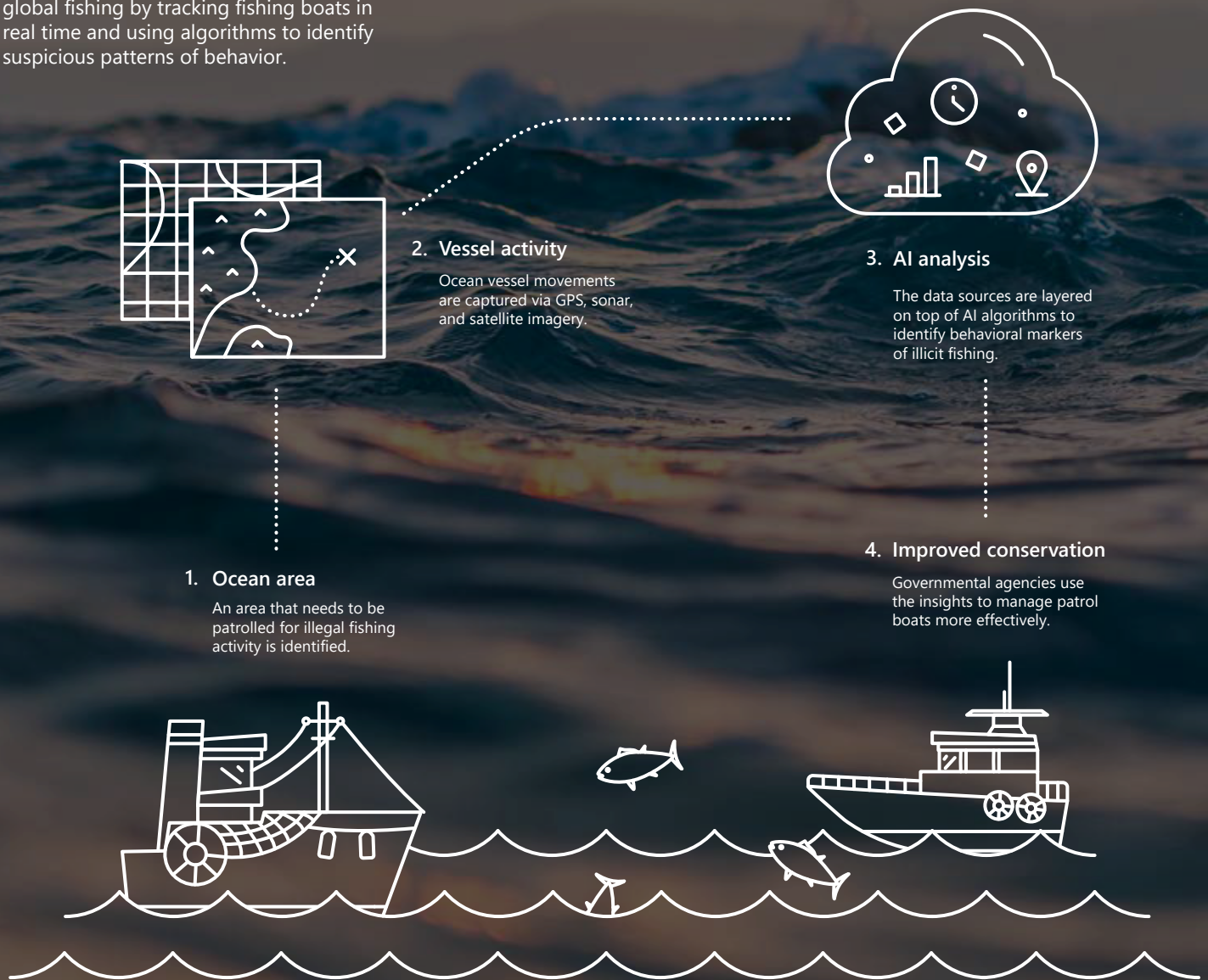AI for Earth

OceanMind

OceanMind increases the sustainability of global fishing by tracking fishing boats in real time and using algorithms to identify suspicious patterns of behavior.

2. Vessel activity

Ocean vessel movements are captured via GPS, sonar, and satellite imagery.

3. AI analysis

The data sources are layered on top of AI algorithms to identify behavioral markers of illicit fishing.

1. Ocean area

An area that needs to be patrolled for illegal fishing activity is identified.

4. Improved conservation

Governmental agencies use the insights to manage patrol boats more effectively.

Challenge

Illegal and unregulated fishing is one of the greatest threats to marine ecosystems, pushing aquatic species to the brink of extinction, throttling local food supplies, and undermining efforts to manage fisheries sustainably. Unfortunately, many governments lack the resources and expertise needed for effective monitoring, control, and surveillance of their marine areas to stop illegal fishing operations.

Solution

OceanMind works with government agencies to protect fishing stocks, pulling public data on vessel positioning into the cloud and tracking each boat in real time. AI algorithms analyze ship movements to identify suspicious behavior, such as staying still for too long or venturing off established routes. Cloud hosting on Microsoft Azure gives OceanMind ever-increasing scale to monitor our oceans and protect marine biodiversity.

Agriculture   Water   Biodiversity   Climate change

Microsoft