

### INNOVATION & EXCELLENCE



(International Procedural Viewer) fundamental part of ISS activity. 60,000 procedures



Highly specialised software development company



Strategic relationships with AON



EU and NASA award winners for outstanding Innovation



Space Clients: European Space Agency (ESA), NASA, JAXA & EUMETSAT



Offices, Ireland, Poland, Romania, UK & Bermuda

### **About Skytek**



Skytek is an award-winning software company specialising in creating innovative solutions for a range of complex and demanding industries. It has an enviable track record in developing world-class software solutions for some of the most challenging industries.

With unparalleled expertise in the Space environment, Skytek can boast decades of engagement with NASA and the European Space Agency and has developed intelligent software solutions for many other industries, including marine transportation, disaster response, aerospace, defence and insurance.



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# **Space Technology**

It's at the heart of everything we do



**INSURANCE** 



**SECURITY** 



**SPACE** 

## INSURANCE & SPACE TECHNOLOGY





#### S-AIS

Collision avoidance system technology. Track mobile assets around the world.



#### **Earth observation**

Imagery of earth from space. Perfect for pre-post analysis in near real time



#### **Climate Satellites**

To be used for air quality and climate monitoring and forecasting



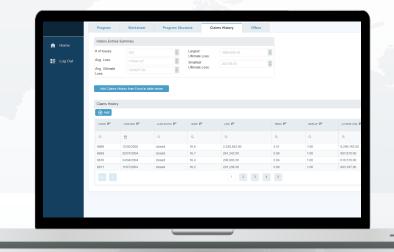
## Machine learning (ML) on Space assets

Combining EO/ML to give a near real time calculation of, S-AIS to better understand 'ground truth' and risk exposure



### **THREE AREAS**















One Platform to Manage your Global Portfolios in Real Time





### Global Risk Aggregation: Dynamic Real Time

- Any asset, any location
- Automated calculation of global exposure in near real time e.g. top 5 risk aggregation locations
- Automated Alerts, monitored regions
- Severe Weather tool: pre event exposure aggregation calculator. Supports additional reinsurance purchase

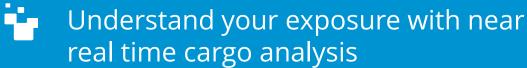








### Port Cargo accumulation



Proprietary Skytek Technology – earth observation imagery, merged with machine learning. Count containers, refrigerated containers and cars at a port

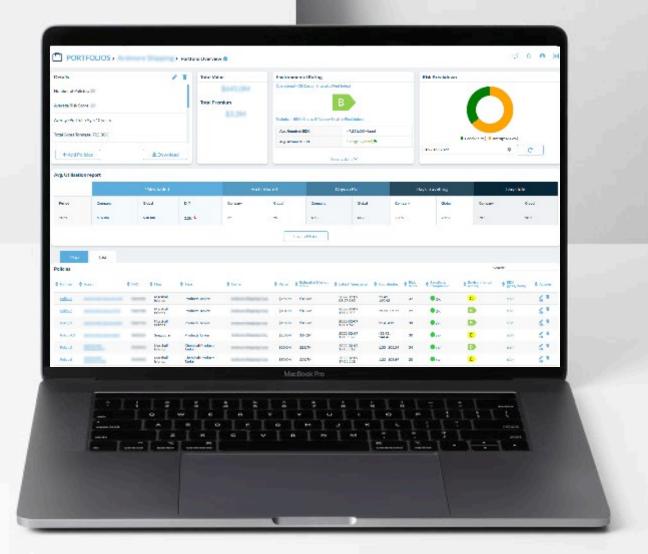
Effective complimentary tool to support modelling system



#### **Underwriting Risk scoring**

- Easy pre-screening of new clients
- Claims historical analysis
- Default **risk score** but can also be tailored by each insurance company
- Comparative evaluation possible





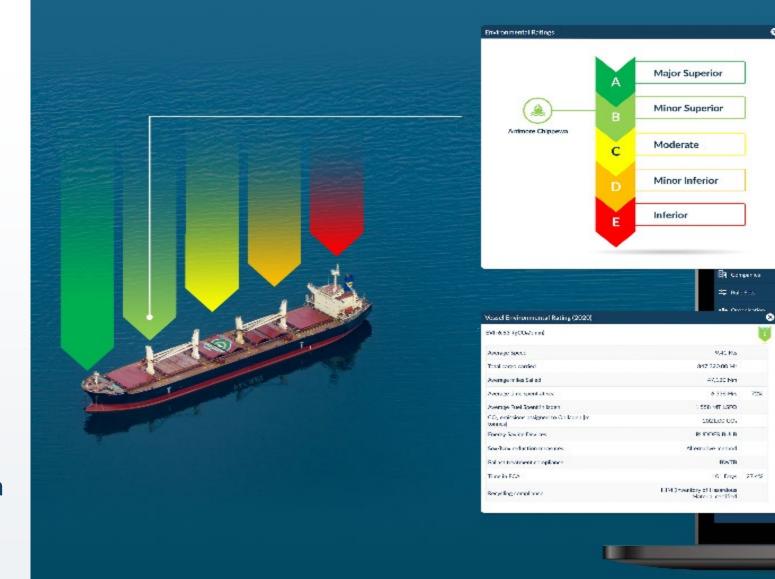




#### **ESG Rating Score**

- Assist clients with compliance IMO greenhouse gas roadmap
- Now possible to rate according to Energy Efficiency
- Marine pollution monitoring, oil, dirty waters etc. supported by Earth observation imagery
- Bio-fouling compliance environmentally sensitive activity tracking



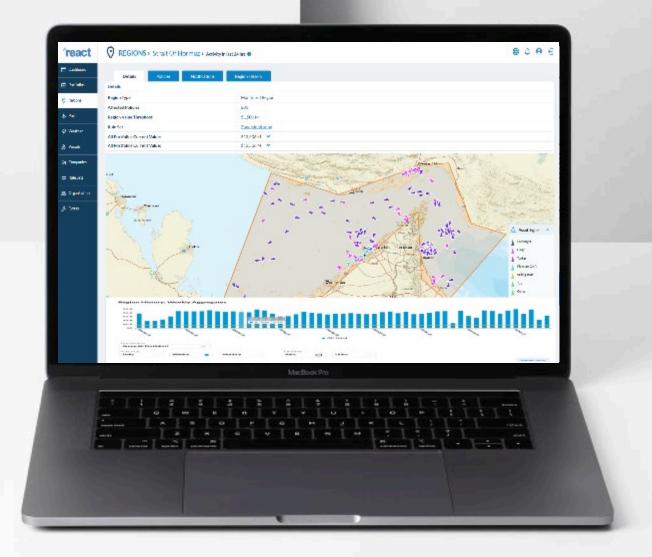




#### War Risk Breach Assessment

- Detailed region historical and real-time exposure
- Streamline management of HRA Events. Automate the process
- Latest JWC limits and customizable alerts









#### **Sanctions & Governance:**



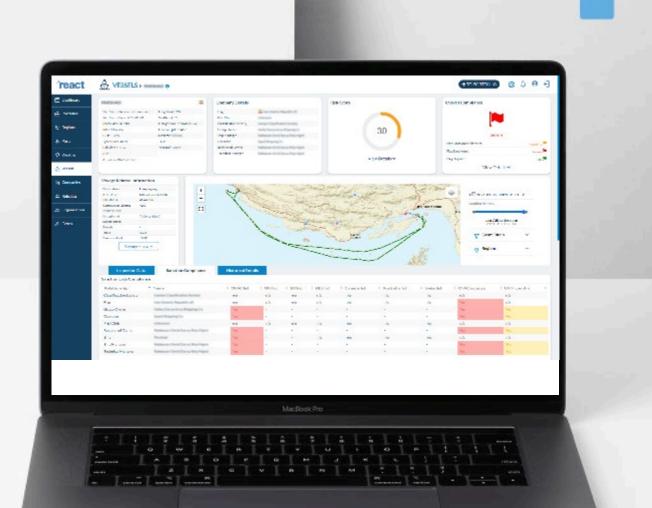
Confirm sanction compliance



Notifications of dark activities, suspicious ship to ship transfers (STS), calling into sanctioned ports



Sustainability/decent employment: Monitoring areas where unsatisfactory work practices in hull cleaning and propeller polishing







Putting Earth Observation
Technology in the hands of the
Insurer

### Game Changing: Impact of Ukraine Conflict

There is now global awareness of the power and quality of satellite imagery



### Support currently being provided to the insurance sector

- Insurance clients have assets trapped and damaged in Ukraine i.e property, infrastructure, ships in ports, etc.
- Providing sector with up-to-date information about their assets.
   PRE/POST satellite imagery
- Updating customers on the status of infrastructure on the ground
- Tactical support on personnel evacuation
- Producing user friendly reports to the end users, by combining various diverse data sources such as S-AIS, SAR, EO and data analytics

https://satellite-club.skytek.com/ukraine/



## Targeting the needs



(RE)INSURANCE UNDERWRITERS



(RE)INSURANCE BROKERS



**CLAIMS MANAGERS** 



LOSS ADJUSTERS



CORPORATE RISK MANAGERS



LEGAL COUNSEL



RISK MODELLERS



## What are the benefits?



Commission proprietary reports prepared by the Skytek expert panel



Access to image acquisition tools



Advice on costeffective tasking and procurement of space data



Priority access to Skytek major events reports



Dedicated workshops on the latest space technology for (re)insurance



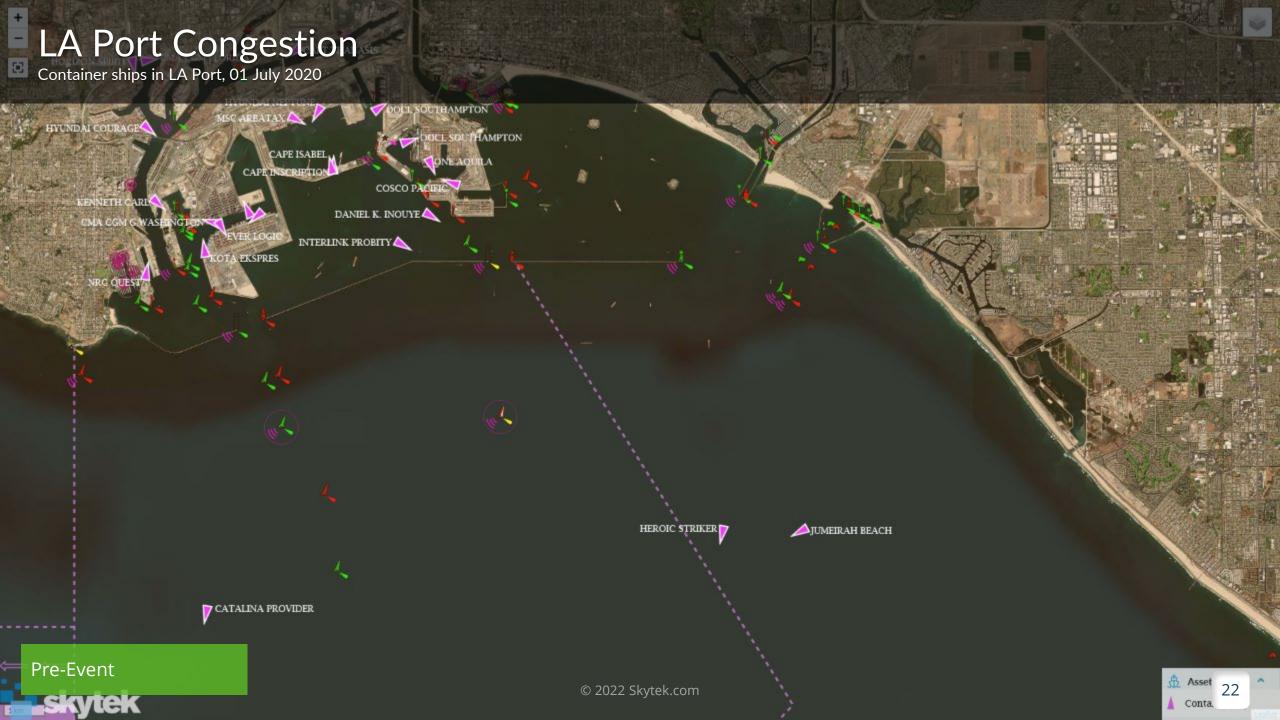
Expert witness and legal defence work

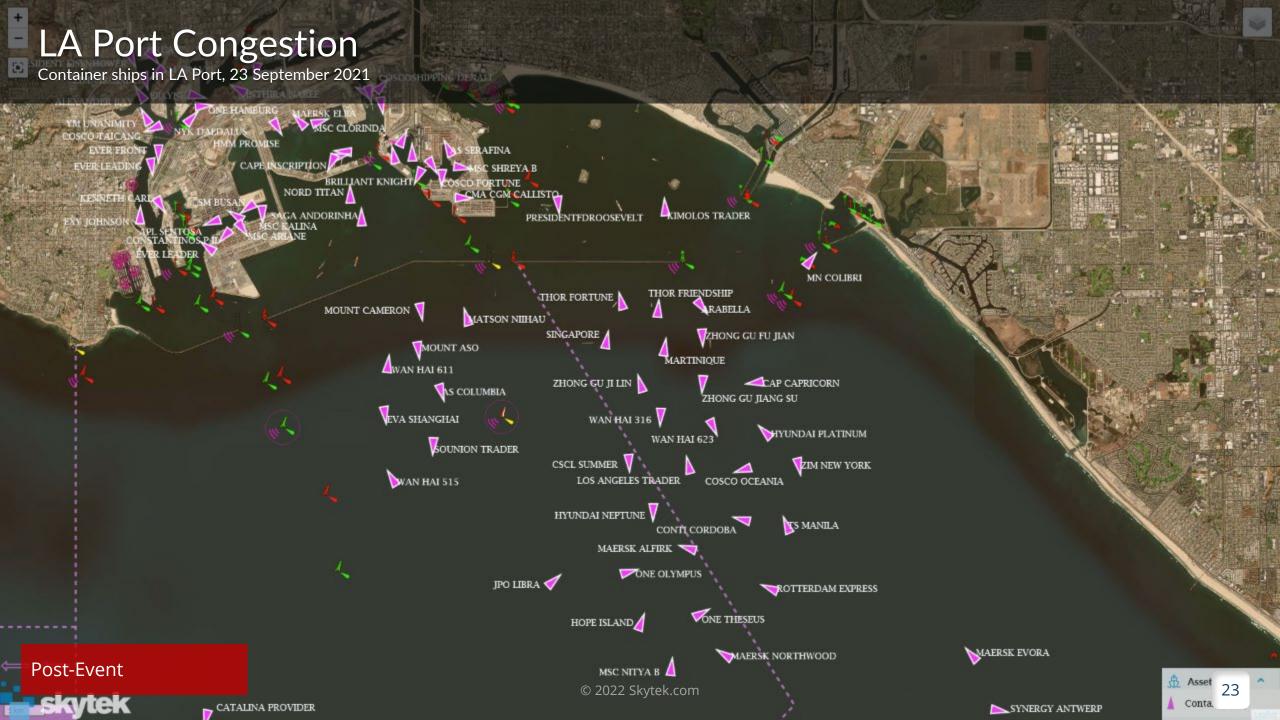


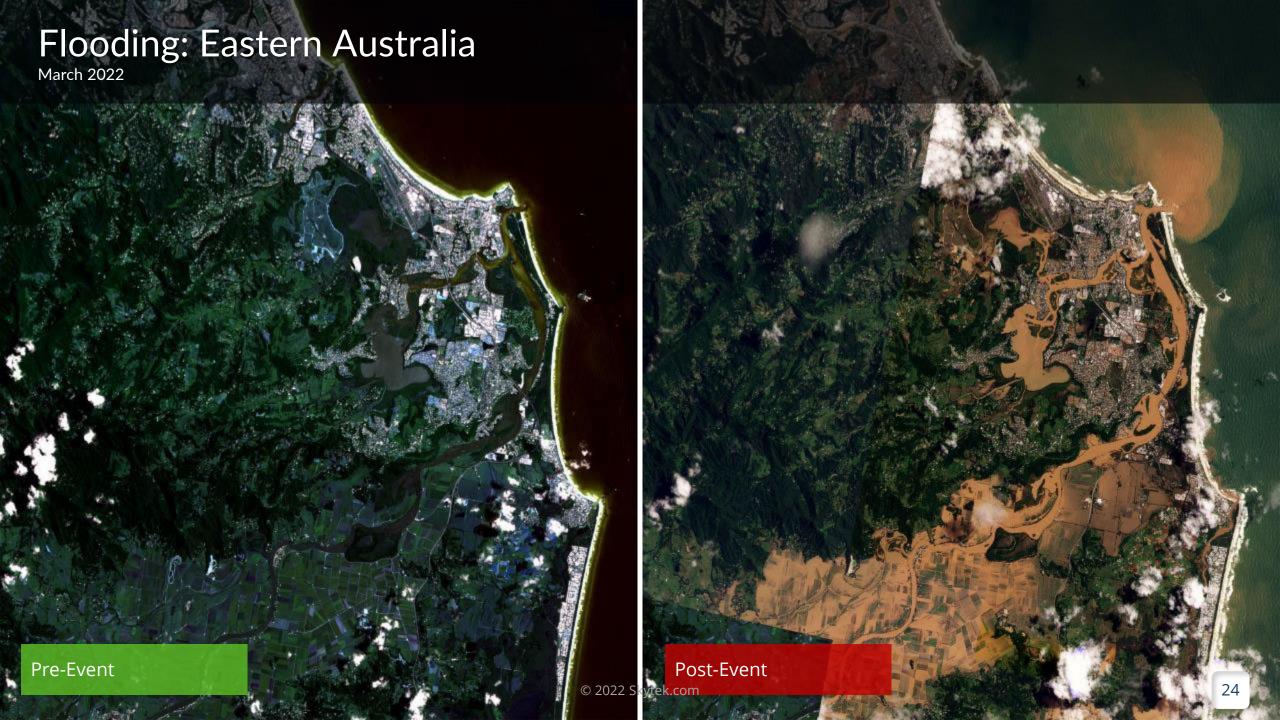
Award-winning EU & NASA technology













# Ukraine: Kherson International Airport Post-Event 15<sup>th</sup> March 2022 Damaged Planes **Burning Helicopters Kherson International Airport** Runway T2215 Road **Burning Truck**



## WHY SKYTEK



Highly skilled and innovative team. NASA and EU Award winning technology



Proven track record in space and security



Long standing relationships with clients including ESA, EUMETSAT and Airbus



Strong R&D focus, talented team



Proprietary algorithms, data sets and technology



