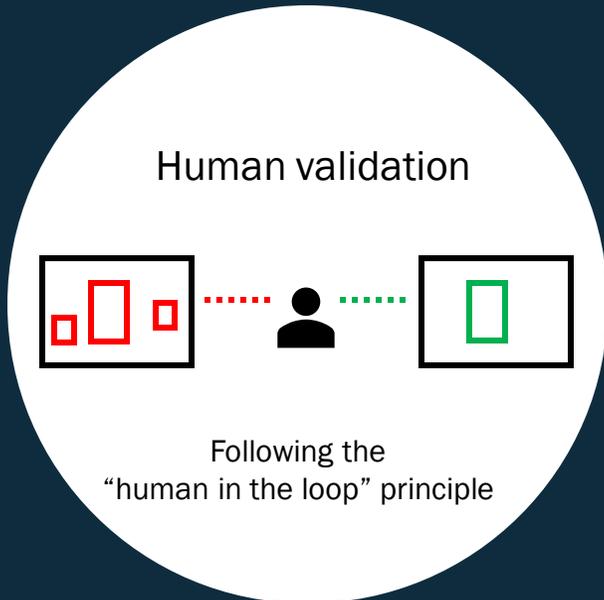
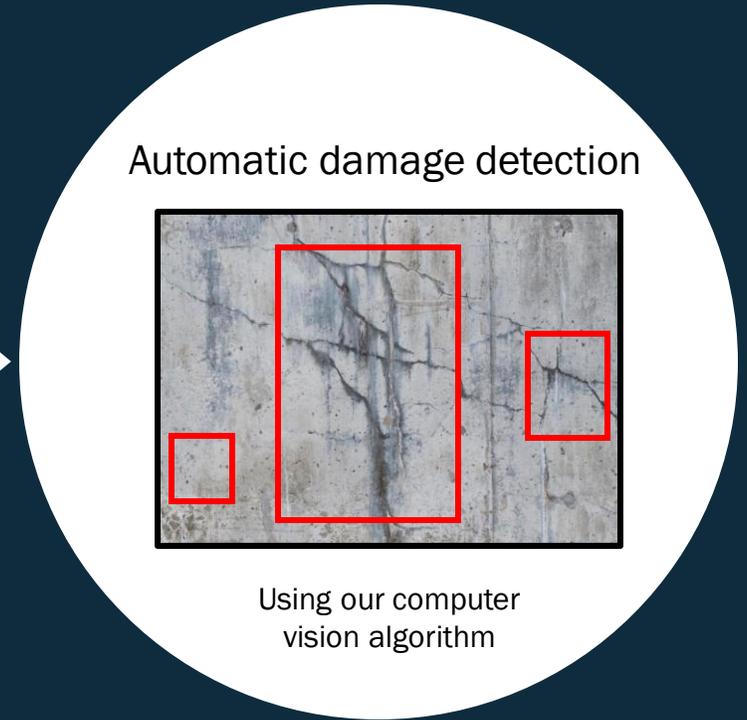




Photographic Asset Inspection

Store, analyze, review and get insights from your photographic data



- Easily store thousands of images
- Reduce manual review time with automatic damage detection
- Spot trends in your growing dataset
- Export your data to your own systems

Import unlimited photos

SBAppUWP

Image Batch New Image Batch

Select images for use in your new image batch

Title *
Spring 2019 - DJI - Flyover 302

Description *
Annual anchor inspection

Tenant *
Sund & Bælt Holding A/S

[Choose Images](#)

[Save](#) [Cancel](#)

Files to Upload	
SB-AB18-AB_S-1	X
SB-AB18-AB_S-2	X
SB-AB18-AB_S-3	X
SB-AB18-AB_S-4	X
SB-AB18-AB_S-5	X
SB-AB18-AB_S-6	X
SB-AB18-AB_S-7	X
SB-AB18-AB_S-8	X
SB-AB18-AB_S-9	X

- Capture from ground or with drone
- Include GPS information
- Overcast weather preferred
- Store as many images as you have
- Organize them in batches

Areas Level2

+ New Area

Overview / Great Belt Link

TITLE || START HEIGHT || END HEIGHT ||

East Bridge 0 300

Next Level

West Bridge 0 300

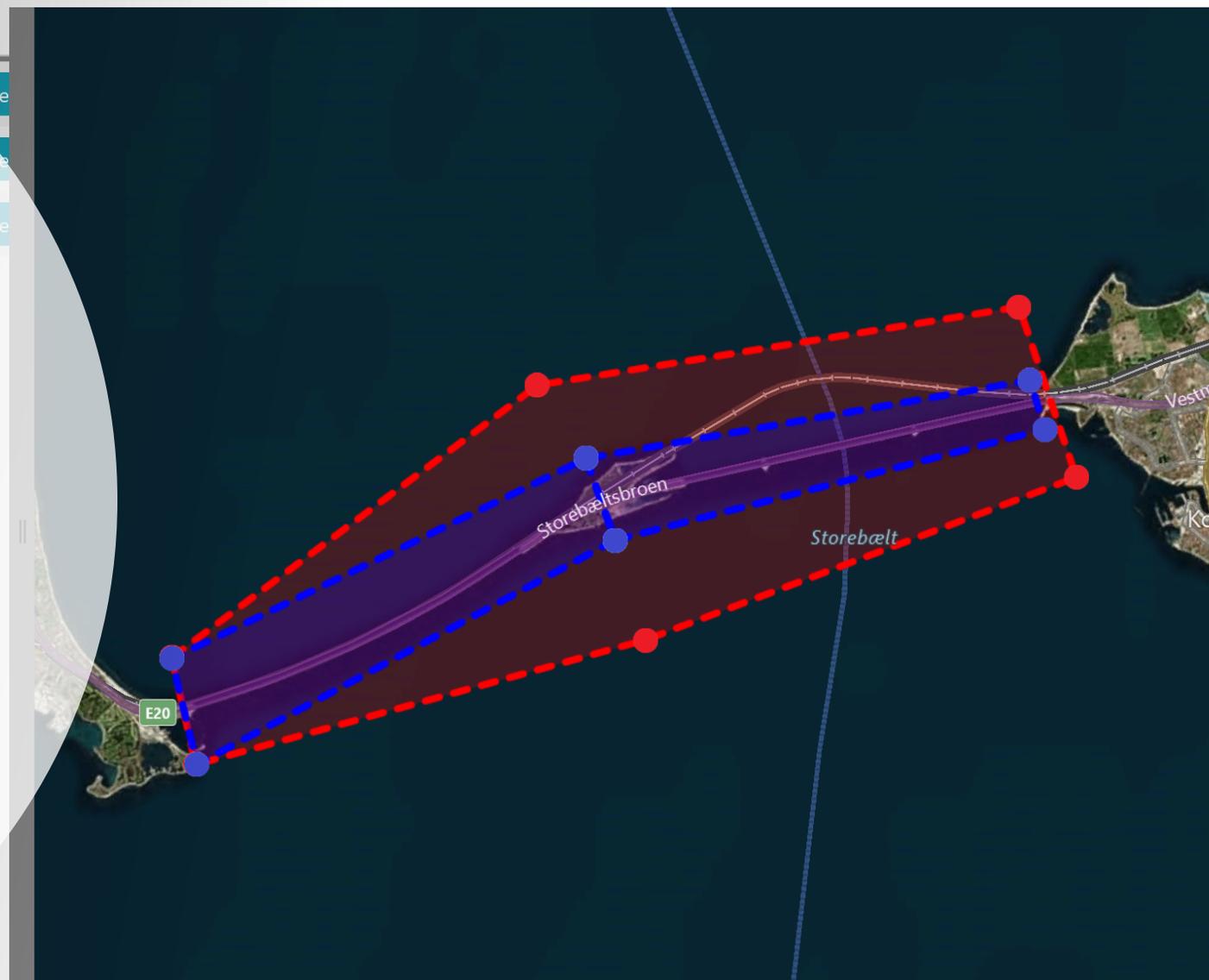
Next Level

Sprogø 0 300

Next Level

Photos are automatically organized by area

- PAI uses the GPS location to automatically organize images in the areas they belong to
- Finding images is easier, especially when browsing multiple large dataset
- Areas hierarchy can be customized in up to five levels



Our computer vision algorithm analyzes your images

- Quickly get an overview per category
- Filter the results based on the automatic analysis to reduce the amount of manual work
- Approve and modify findings following the “human in the loop” principle
- Algorithm gets more accurate over time

March anchor analysis

Created: 3/2/2019

Description: Analysis for the spring inspection 2019.

Algorithm: Concrete detection algorithm - 1.23.6

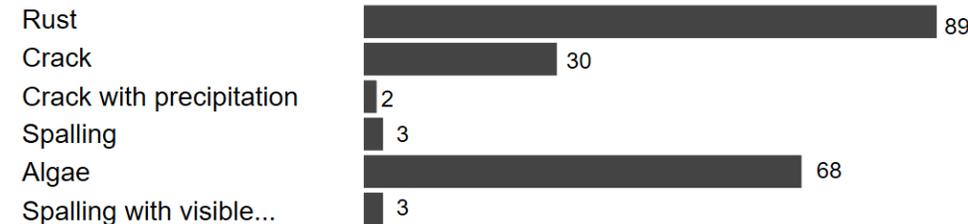
Image Batch: March 2019 - DJI flyover - Cloudy

Number of images: 1430

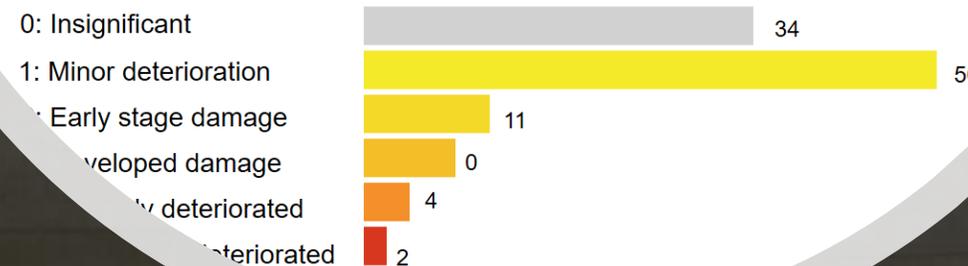
System processing status: 1430/1430 Completed

Images reviewed by users: 10

Count of System Annotations by Tag Name



Count of User Annotations by Condition Rating



Labels

↑ or ↓ to select rows
← or → to change page

OB-SOEJLE2-368.JPG
11 days ago by afnt@sbfdk

OB-SOEJLE2-358.JPG
11 days ago by afnt@sbfdk

OB-SOEJLE2-350.JPG
11 days ago by afnt@sbfdk

OB-SOEJLE2-339.JPG
11 days ago by afnt@sbfdk

OB-SOEJLE2-331.JPG
11 days ago by afnt@sbfdk

OB-SOEJLE2-318.JPG
11 days ago by afnt@sbfdk

OB-SOEJLE2-276.JPG
11 days ago by afnt@sbfdk

OB-SOEJLE2-262.JPG
11 days ago by afnt@sbfdk

OB-SOEJLE2-251.JPG
11 days ago by afnt@sbfdk

OB-SOEJLE2-245.JPG
11 days ago by afnt@sbfdk

OB-SOEJLE2-225.JPG
11 days ago by afnt@sbfdk

OB-SOEJLE2-219.JPG
11 days ago by afnt@sbfdk

OB-SOEJLE2-215.JPG
11 days ago by afnt@sbfdk

1-13 of 51

ID	Category	Count
1	Algae	10
2	Rust	6
3	Crack	2
4	Crack with precipitation	11
5	Spalling	
6	Spalling with visible corroded rebar	

The computer vision algorithms are trained by concrete experts

- Photos of damages are used to train the algorithm
- Training material is selected and validated by Sund & Bælt employees
- Multiple categories are used for the training:
 - Crack
 - Crack with precipitation
 - Spalling
 - Spalling with visible corroded rebar
 - Algae
 - Rust



Review the automatic analysis and add your own annotations

- You can add cause, description and assign a condition rating
- Correcting errors will help the algorithm improve
- Track the damages over time by creating links between them
- See your assets in 3D to help locate damages

SBAppUWP

Analysis Image View AP Analysis - 1647

Map View  Image View

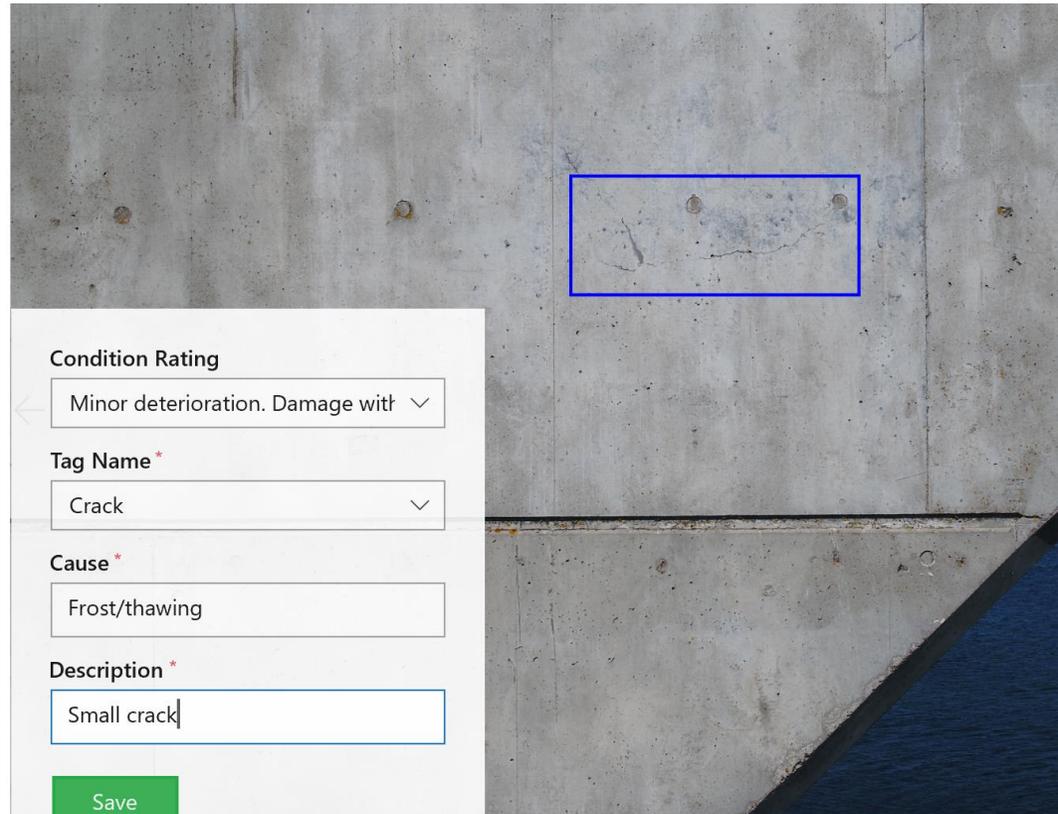
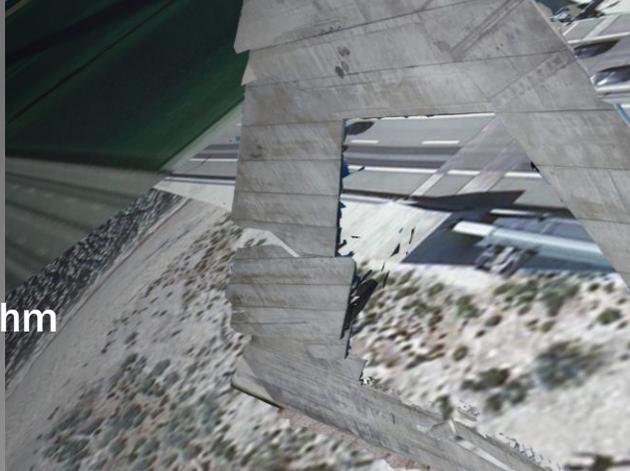


Image Informations

Image Description
DCIM\100MEDIA\DJI_0068.JPG

Image Date: 5/9/2018
Latitude: 55.339
Longitude: 11.0147
Altitude: 30.459
Area: Great Belt Link, East Bridge, Anchor Block 18, Syd

Condition Rating
Minor deterioration. Damage with

Tag Name *
Crack

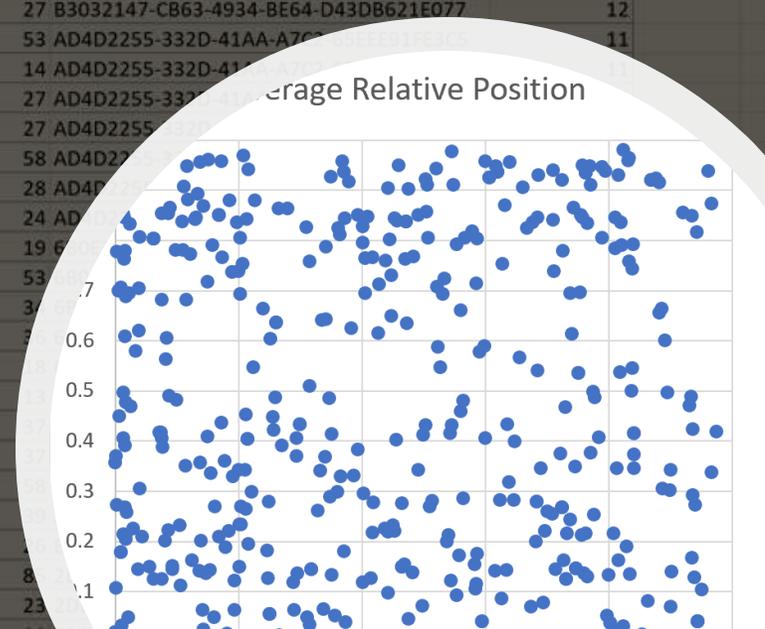
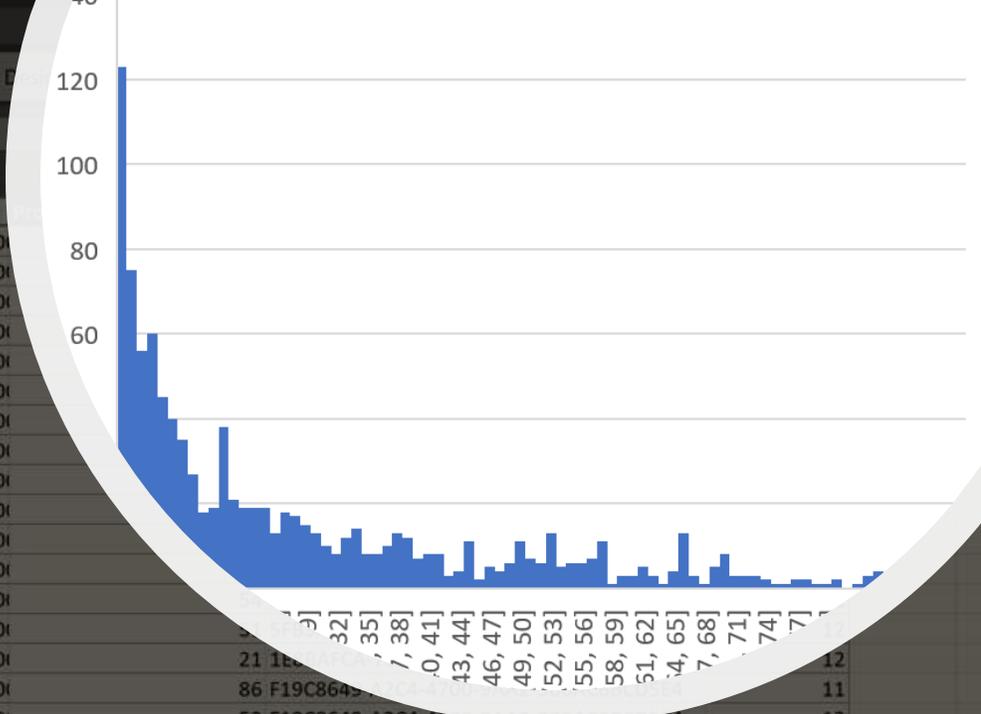
Cause *
Frost/thawing

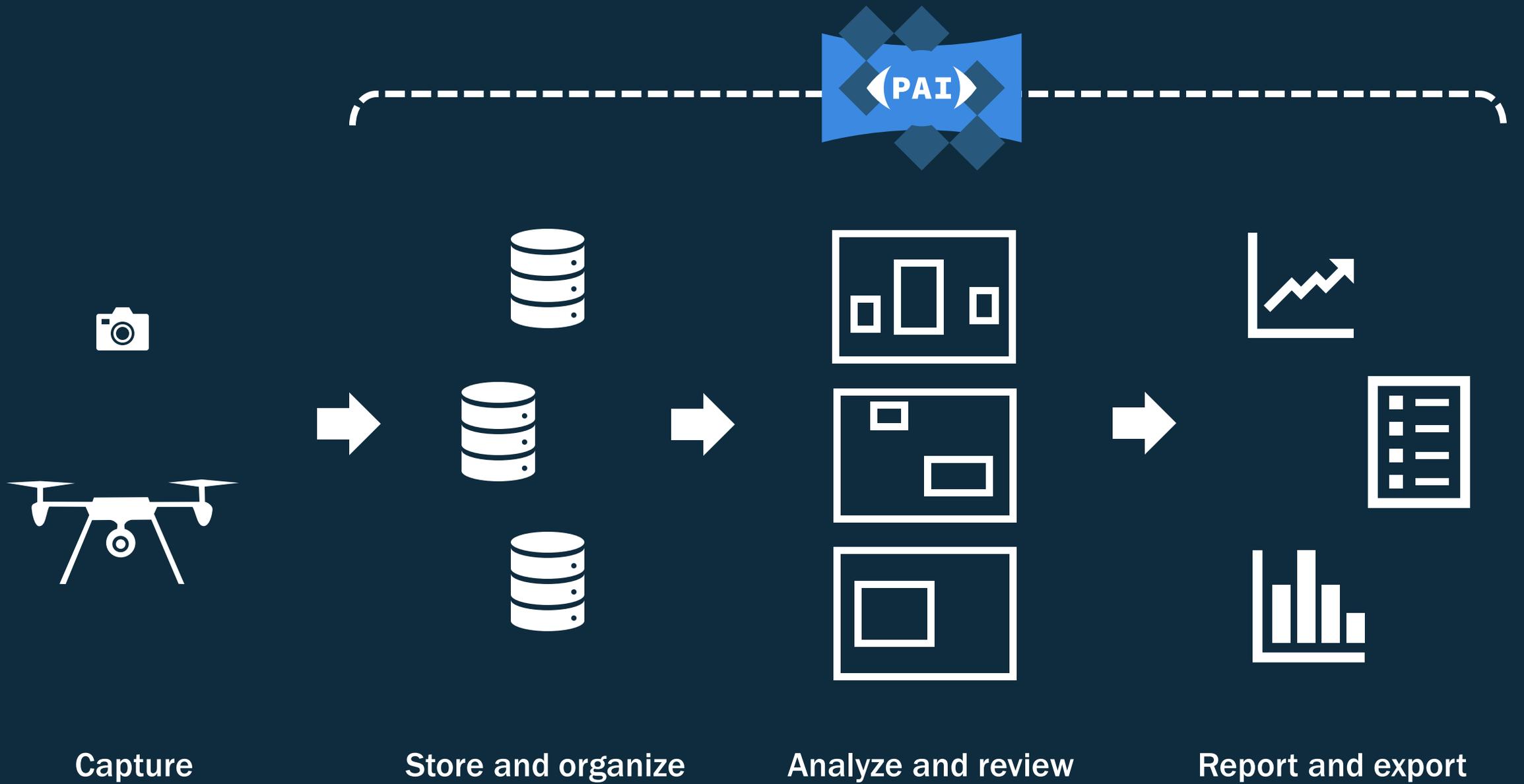
Description *
Small crack

Inspection
Asset
Material
Area
Test User
Settings

Create PDF reports with images & export your data

- Generate reports for PDF or CSV
- Filter your data by
 - Damage type
 - Area
 - Condition rating
- Import data to own system
- Share PDF with contractor





Timeline

Spring 2019

- Internal testing
- Pilot customers

We are looking for
pilot customers to
help shape PAI

Summer 2019

- Commercial launch
- Feedback used for improvement

Built on Azure

A global cloud service by Microsoft

- You own everything you upload
- Other users cannot see your data
- You can export all your data at any time



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