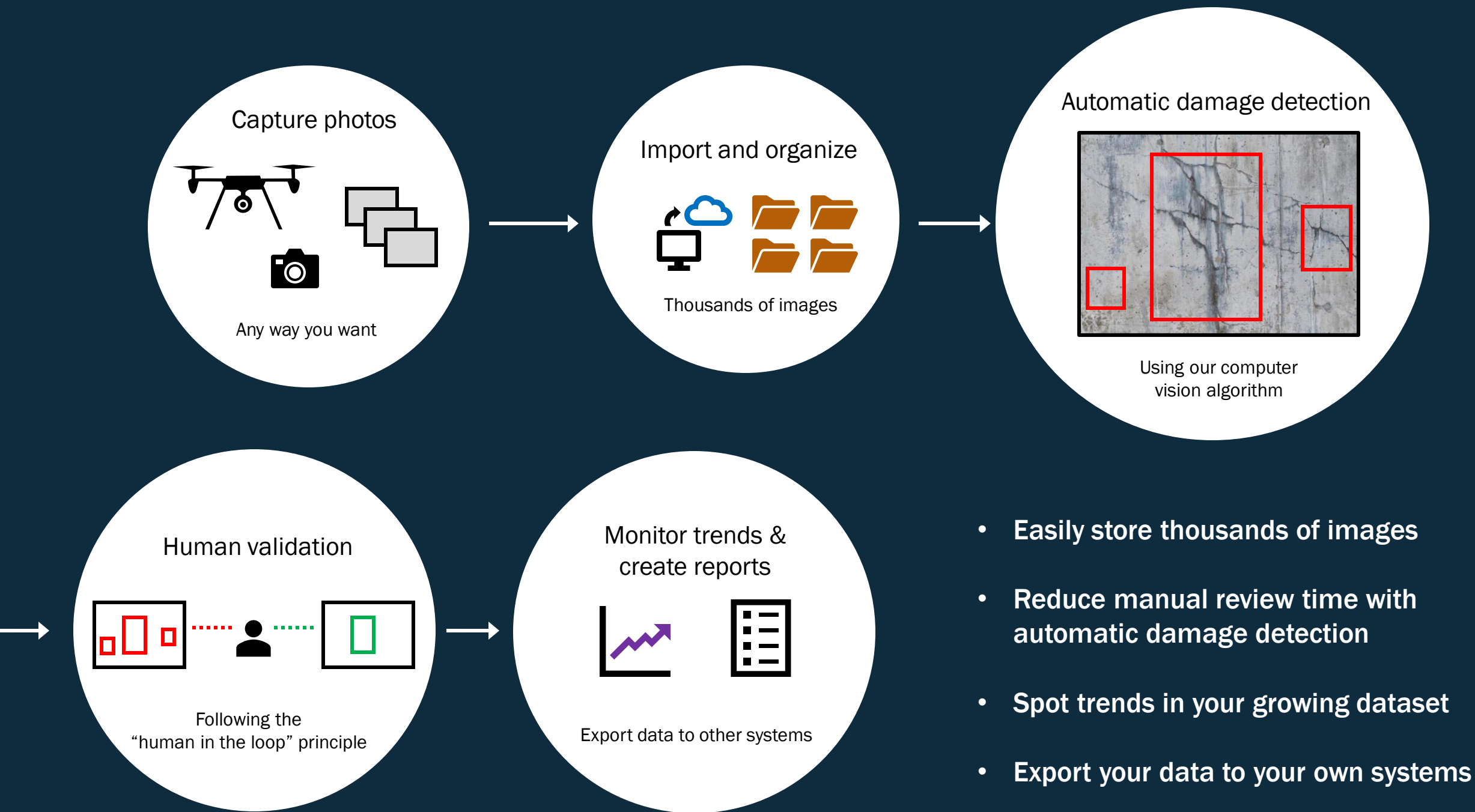




Photographic Asset Inspection

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



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

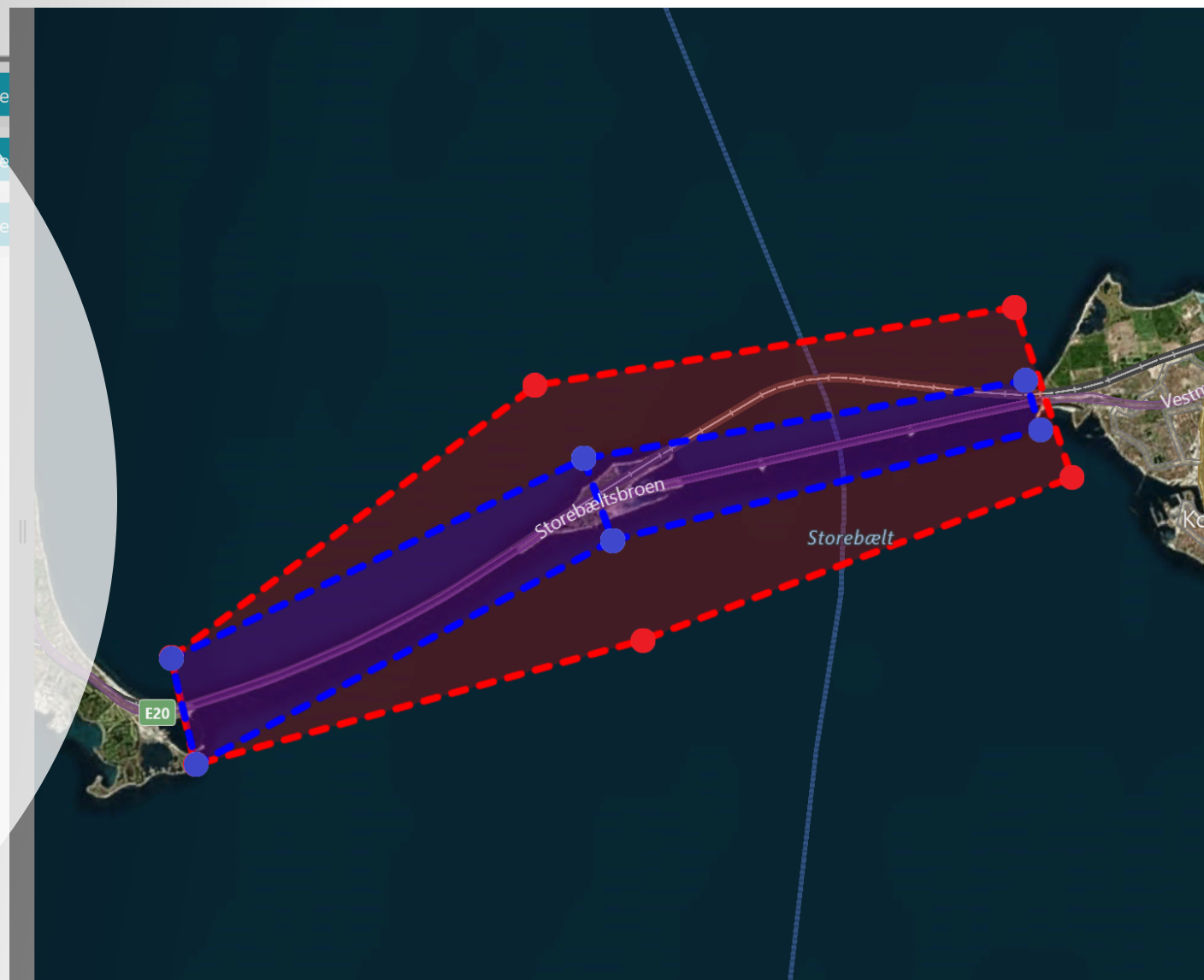
Next Level

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

ated: 3/2/2019

Description: Analysis for the spring inspection 2019.

Algorithm: Concrete detection algorithm - 1.23.6

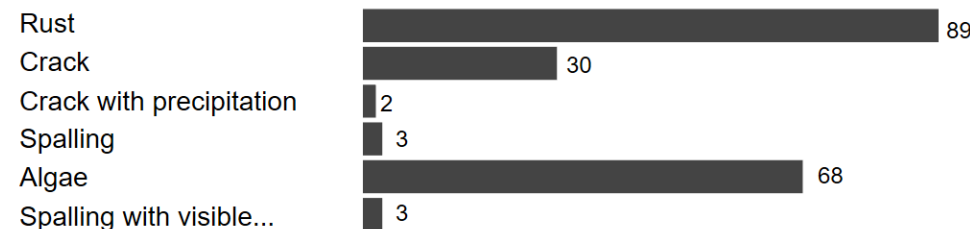
Image Batch: March 2019 - DJI flyover - Cloudy

Number of images: 1430

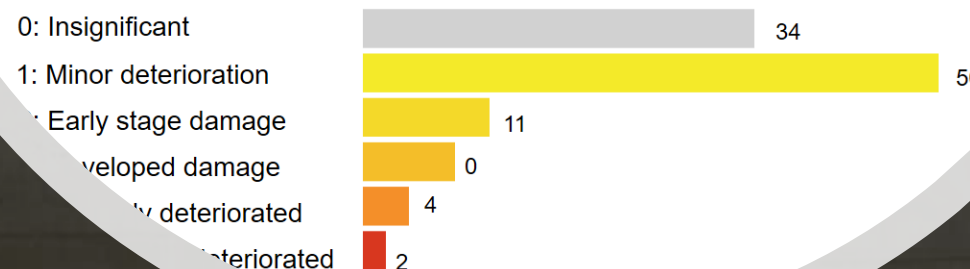
System processing status: 1430/1430 Completed

Images reviewed by users: 10

Count of System Annotations by Tag Name



Count of User Annotations by Condition Rating



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

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

Inspection

Asset

Material

Area

Base

Test User

Settings

Analysis Image View AP Analysis - 1647

Map View

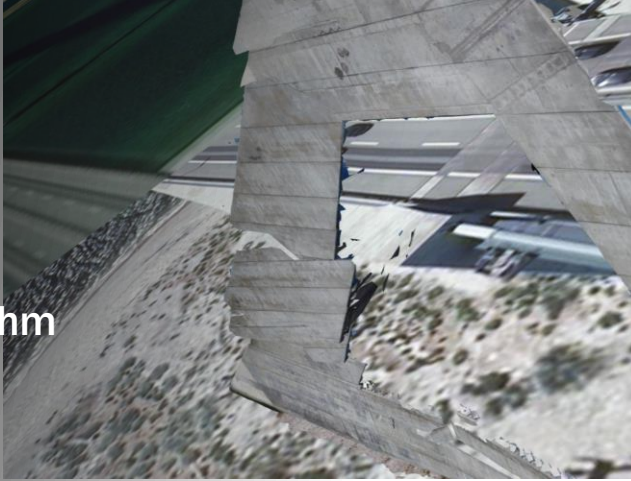


Image Informations

Image Description

DCIM\100MEDIA\DJL_0068.JPG

Image Date:

5/9/2018

Latitude:

55.339

Longitude:

11.0147

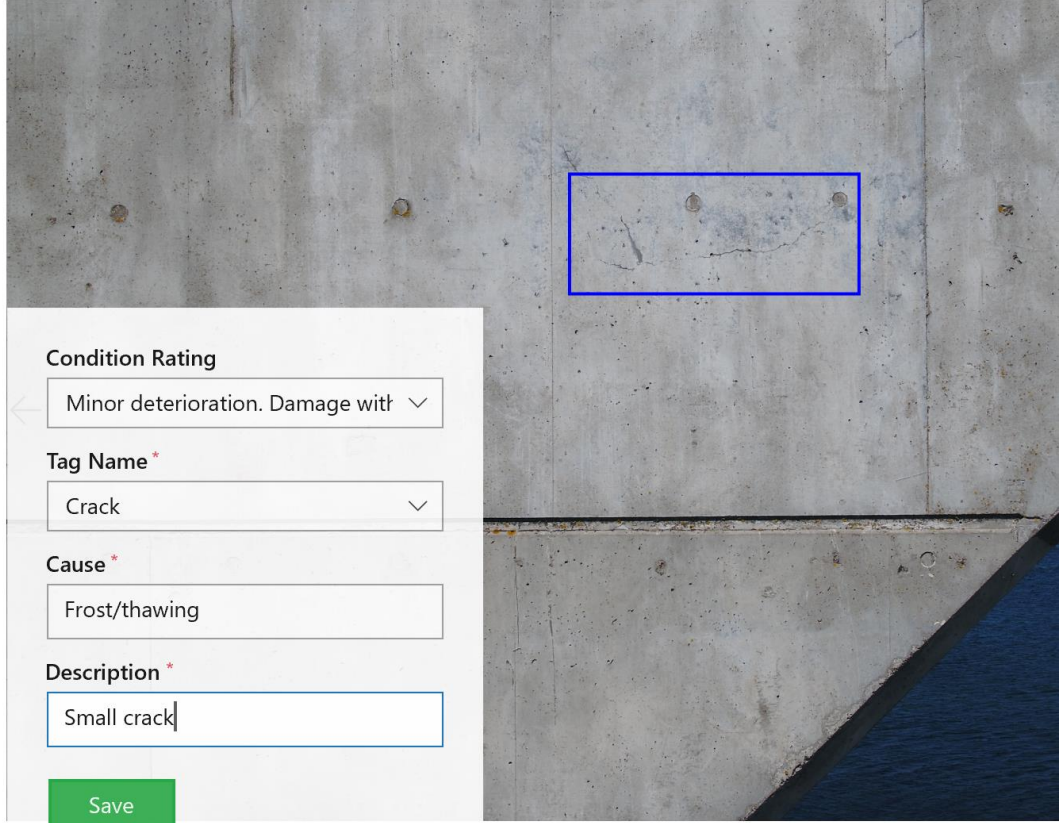
Altitude:

30.459

Area:

Great Belt Link, East Bridge, Anchor Block 18, Syd

Image View



Condition Rating

Minor deterioration. Damage with ▾

Tag Name *

Crack ▾

Cause *

Frost/thawing

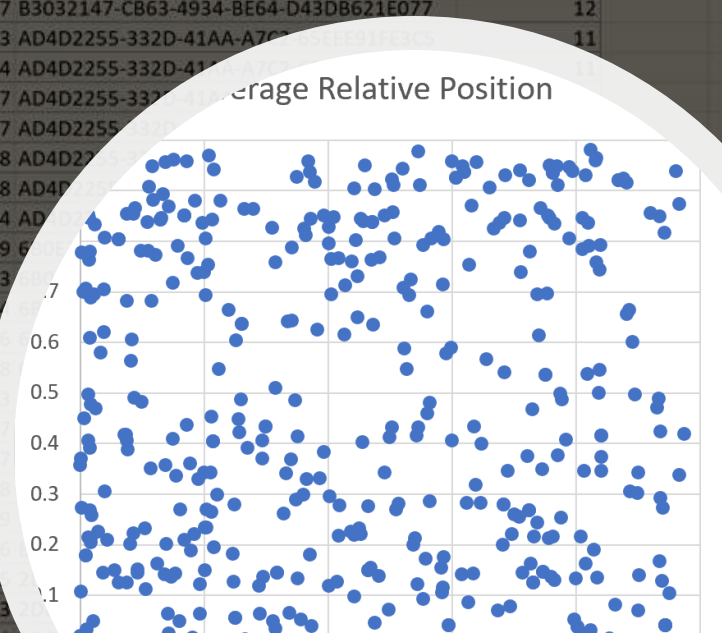
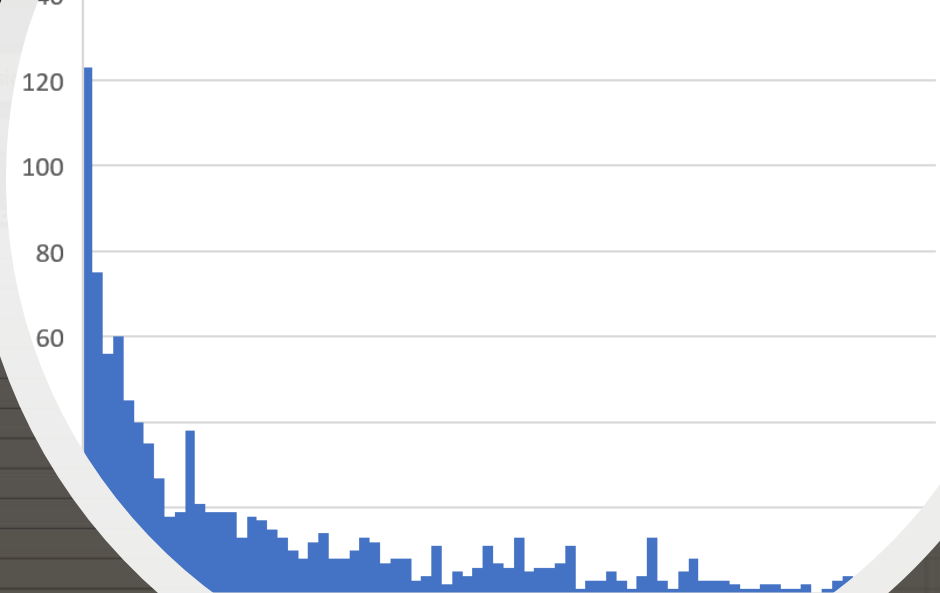
Description *

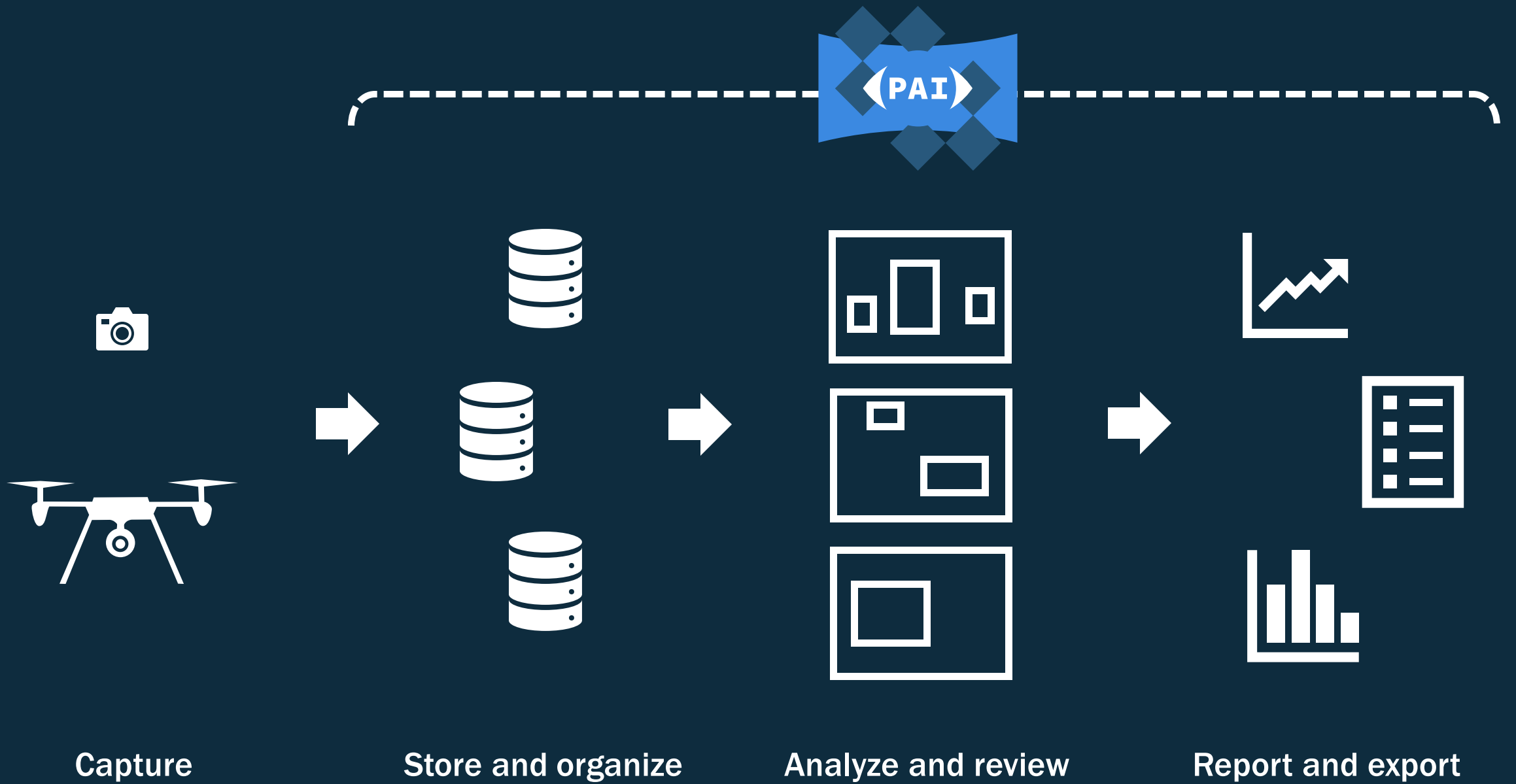
Small crack

Save

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

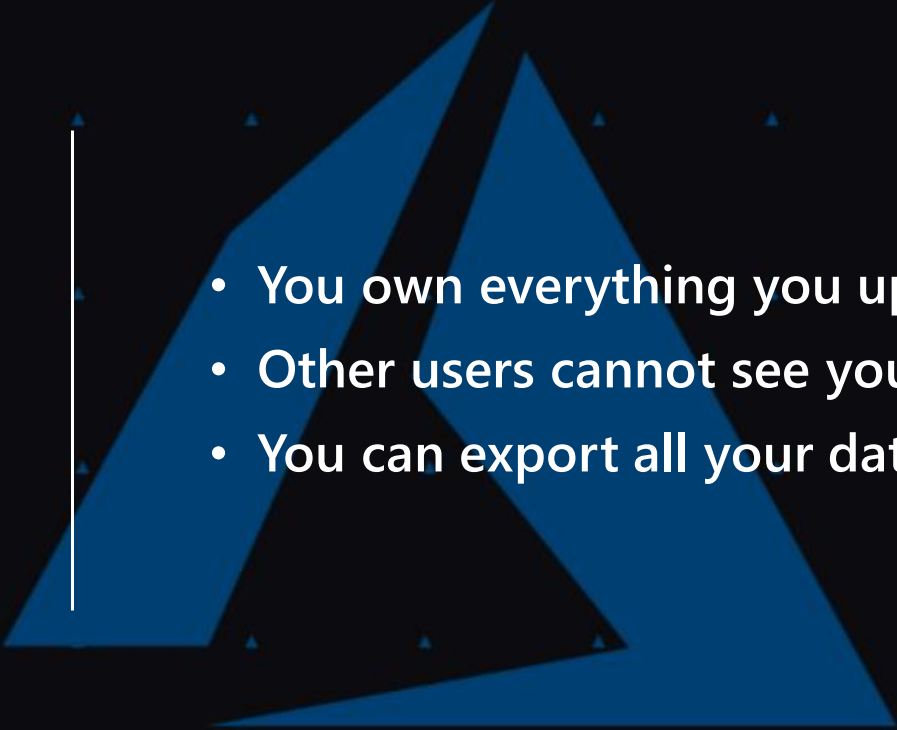
We are looking for
pilot customers to
help shape PAI

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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