

Space Intelligence Ltd

Professor Ed Mitchard: ed@space-intelligence.com

GTAI: 22nd April 2021

Space Intelligence Ltd, UK company number SC595836, VAT number GB342811714. Registered offices: 113 St. John's Road, Edinburgh EH12 7SB

INTRODUCTION TO SPACE INTELLIGENCE

- Company based in Edinburgh, Scotland, founded in 2018
- Focus on using satellite data to plan and monitor Nature Based Solutions projects
- Clients:
 - Private sector (Shell, Brewdog, The Biodiversity Consultancy...)
 - Non-profits (TNC, Zeromission)
 - Governments (NatureScot/Scottish Government)







Scottish Enterprise





BREWDOG





SPACE INTELLIGENCE CORE SERVICES



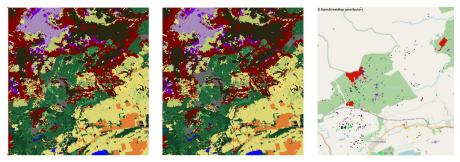
Habitat Mapper: High accuracy land cover mapping

- Current period
- Historical periods
- Changes between periods

Landcover 2019

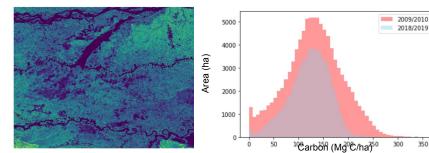
Landcover 2020

Landcover change



Carbon Mapper: High accuracy carbon stock mapping

- <u>Unique product on market</u>
- Full carbon benefit of Nature Based Solution activities
- More carbon credits generated from high-precision maps
- Supplied with accuracy assessments



OUR TEAM



Dr Murray Collins CEO



Prof. Ed Mitchard CSO



Dr Keiko Nomura Senior Analyst



Dr Alexis Moyer EO Analyst



Kristian Bodolai Developer



Michael Berliner PM & Biz Dev



Wietze Suijker GeoSpatial Analyst



Marina Ruiz Sanchez-Oro PhD Student



Carol Blackwood GeoSpatial Analyst



Aisling Hurley Junior Analyst Kickstart employee PR & Ops

Junior Developer



LAND COVER MAPPING OF SCOTLAND 2019 & 2020



Overall Accuracy: 91%, 22 classes

Landcover Scotland 2019

Landcover Scotland 2020

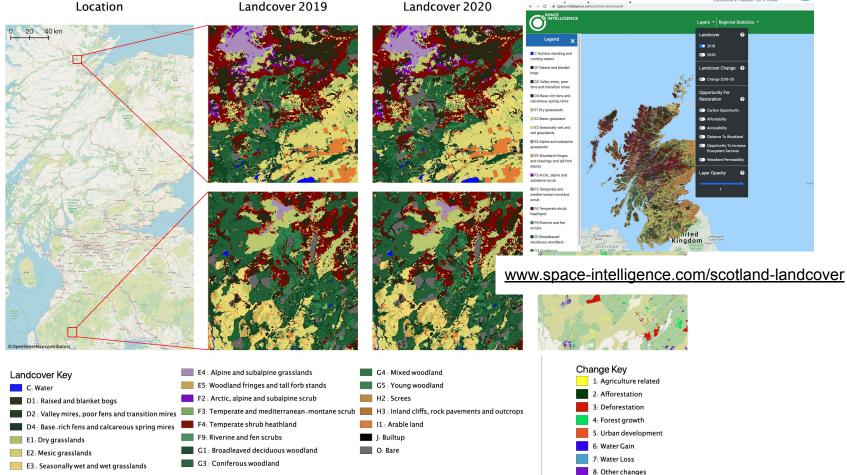


Landcover Key

- C: Water
- D1 : Raised and blanket bogs
- D2 : Valley mires, poor fens and transition mires
- D4 : Base_rich fens and calcareous spring mires
- E1: Dry grasslands
- E2: Mesic grasslands
- E3 : Seasonally wet and wet grasslands
- E4 : Alpine and subalpine grasslands
- E5: Woodland fringes and tall forb stands
- F2 : Arctic, alpine and subalpine scrub
- F3: Temperate and mediterranean-montane scrub
- F4: Temperate shrub heathland
- F9: Riverine and fen scrubs
- G1 : Broadleaved deciduous woodland
- G3 : Coniferous woodland
- G4 : Mixed woodland
- G5 : Young woodland
- H2 : Screes
- H3 : Inland cliffs, rock pavements and outcrops
- I1 : Arable land
- J: Builtup
- O: Bare

LAND COVER CHANGE IN SCOTLAND 2019-2020





FOREST CARBON



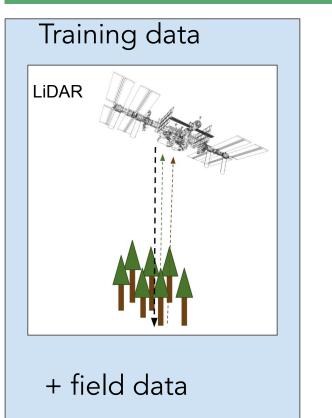
Carbon in forests

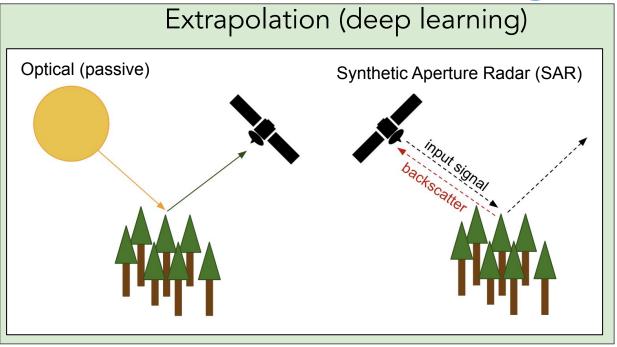
- Mostly in tree stems
- Highly variable in space
- Traditionally difficult to map using satellite data

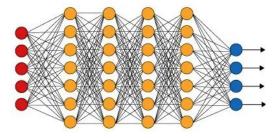


SPACE INTELLIGENCE HIGH RESOLUTION CARBON MAPS









RECENT SUCCESSES

The Herald

Election 2021 Sport v Politics v Voices v Business HQ v Arts & Ents v Features v Campaigns v Our Writers Notices v

NEWS 1st April

AI used to tackle climate emergency with incredible satellite maps of Scotland



By Caitlin Hutchison | 🈏 CaitlinHutchie



f 💟 in 🖸 📮 1 comment

Scotland's first ever nationwide high-resolution habitat map has been launched.

It's hoped the satellite images can provide insight into how the country's landscapes are changing over time, while examining the potential of artificial intellicence to make positive change for the environment.



2021: Winner top 3 SME selected for National Innovation Showcase: "Can Do Innovation Summit" 3rd Feb 2021



Great to be mentioned in the House of Commons today! Thanks @OwenThompson for saying "Companies like @ecometrica, @Carbomap and @SpaceIntelli who are helping move Edinburgh to become the space data capital of Europe." @CanDoScotland @BayesCentre



5:31 PM · Feb 4, 2021 · Twitter Web App

26 Retweets 5 Quote Tweets 77 Likes



2020: Ranked 8th most innovative tech company in Scotland (Business Cloud's Tech Top 50)

...



Front Cover Business HQ magazine, Dec 2020



of Pollok Park for

Vicola Sturgeon to

recreation?

nveil free breakfast and lunch

plan for every

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Questions

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