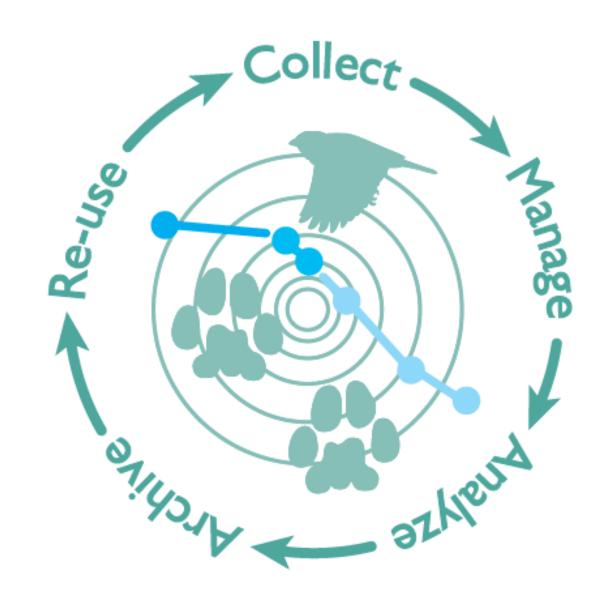
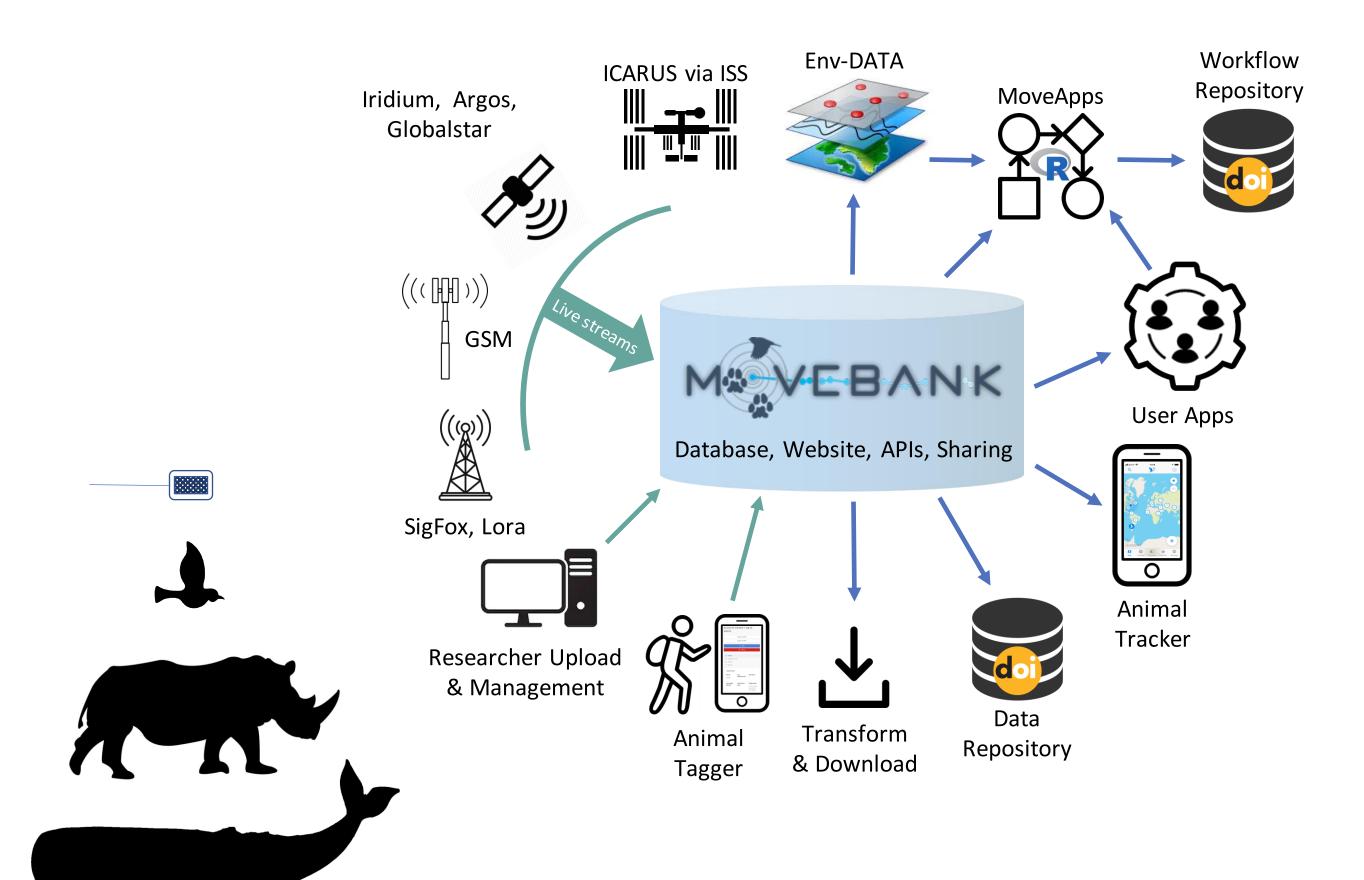
Movebank is a global database

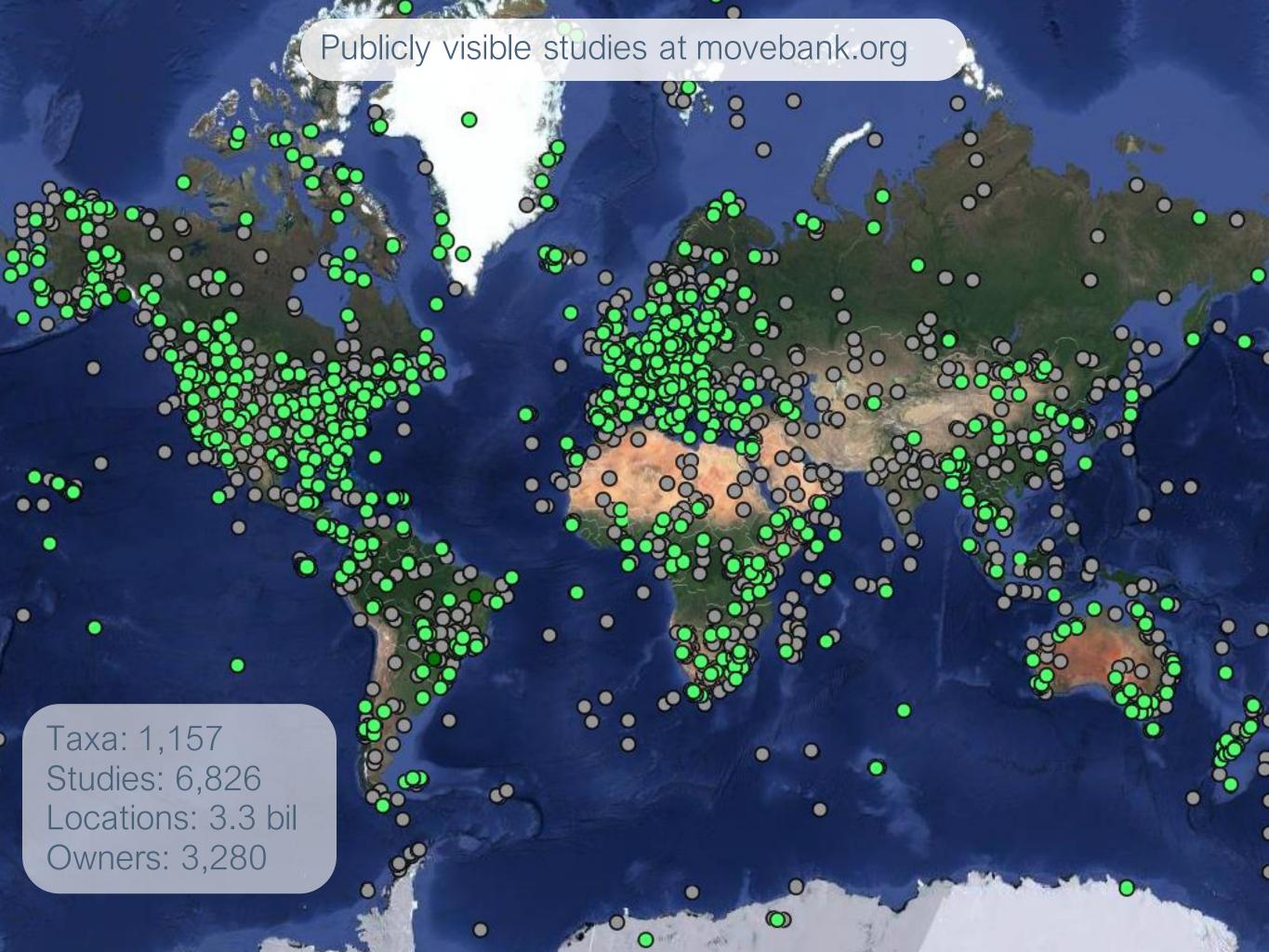
for animal tracking and animal-borne sensor data

and a tool

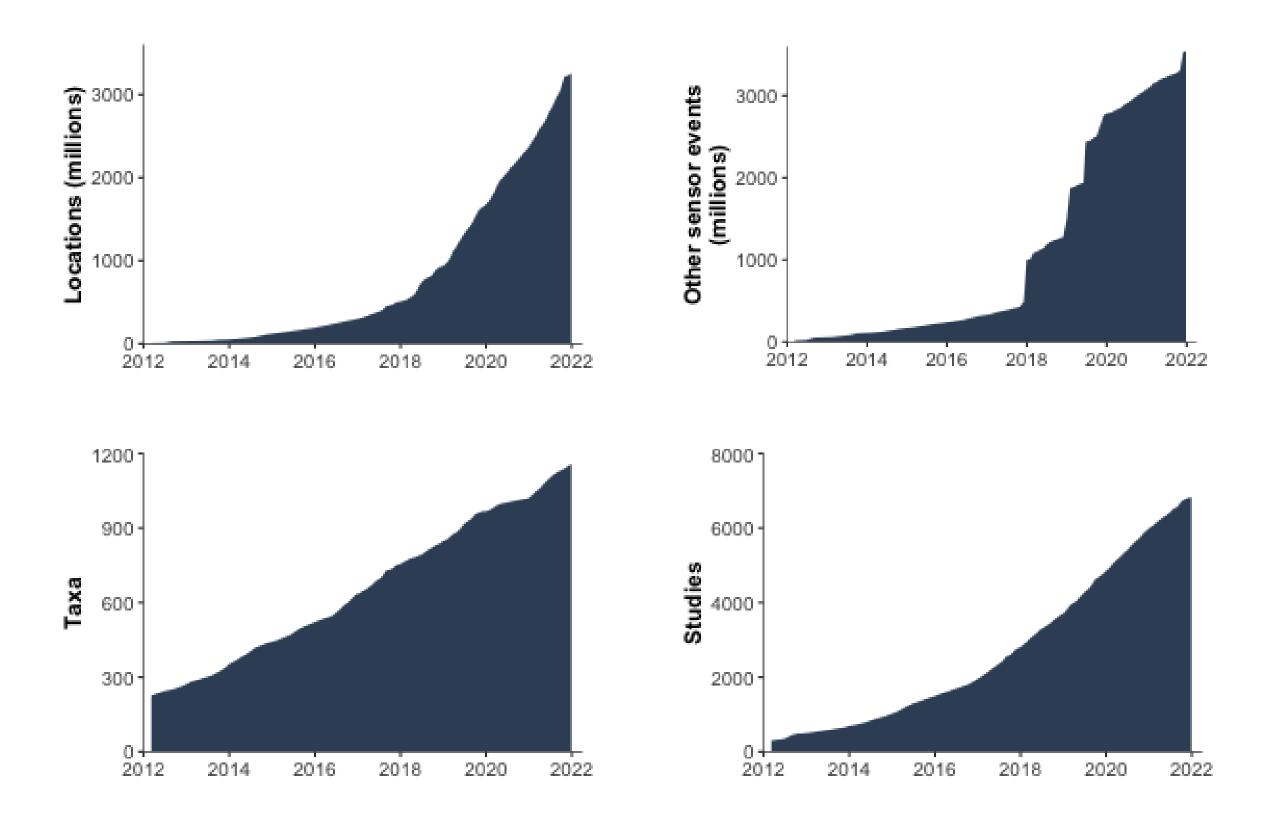
for working with data throughout its life cycle.







Database Content



Harmonized Data

Tracking methods

Radio & acoustic telemetry

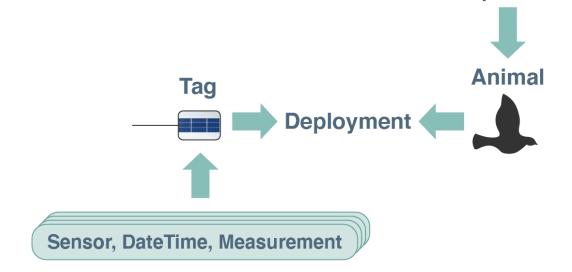
Argos Doppler

GPS

Radio telemetry

Solar geolocator

Bird rings, markings



Other sensors

Accelerometer

Barometer

Species

Gyroscope

Light levels

Magnetometer

Orientation

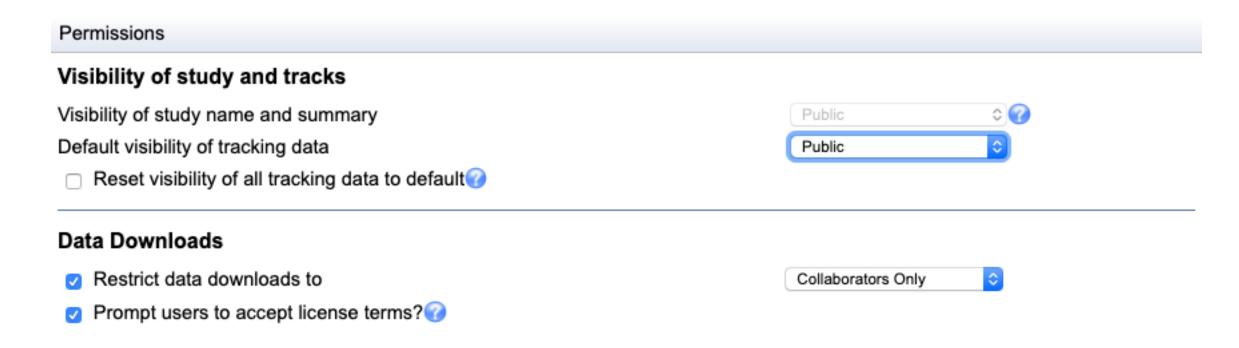
Temperature

Flexible Sharing

Public Embargo

License type after this date

Public or controlled-access sharing, decided by data owners.



Embargoes for recent data or to schedule future archiving.

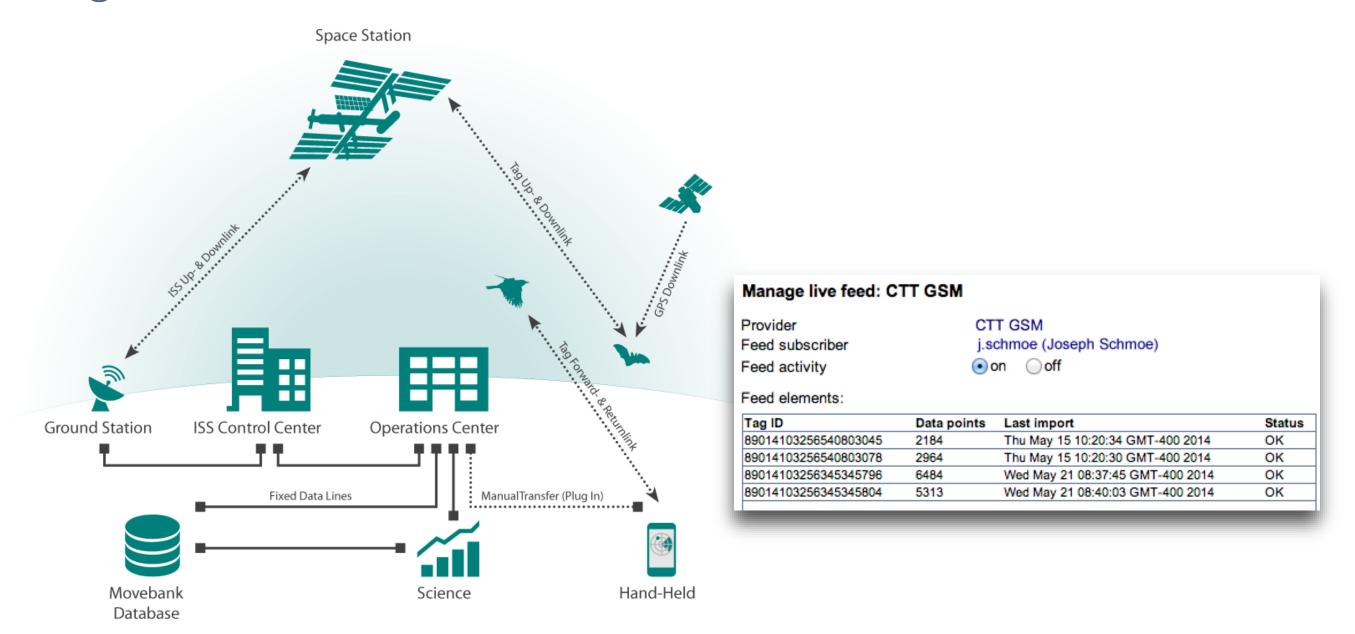
□ Restrict public access, as selected in Visibility of Study and Tracks and Data □ Download above, to events older than You can optionally select a date in the future on which your study will become public. □ Allow the public to view tracks and download data after this date

0 6

Data Feeds

25+ tag manufacturers

Argos, GSM, ICARUS, Iridium, GlobalStar, wireless networks

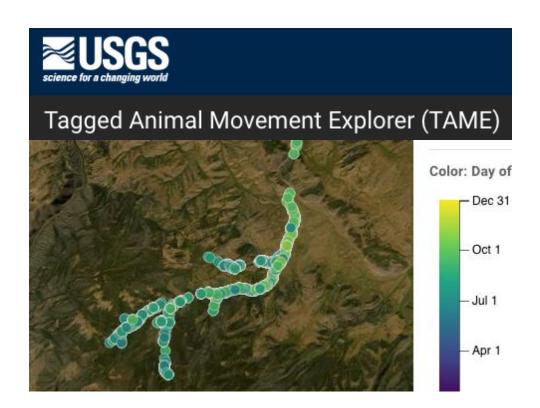


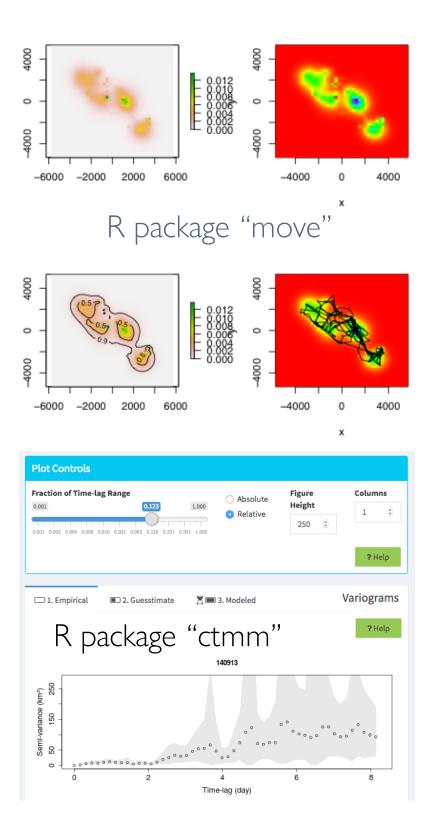
Uniform Access Protocols

File Downloads

- Excel 2007 GoogleEarth (Home Range)

Direct access via REST API





Kranstauber et al. 2012, Journal of Animal Ecology Calabrese and Fleming 2016, Methods in Ecology and Evolution

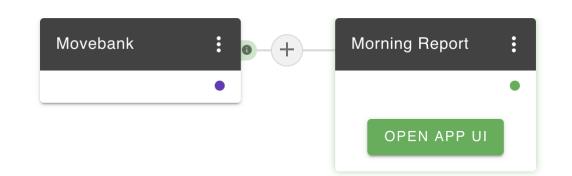
Mortality detection

1. Live data feeds

Manage live feed: CTT GSM										
Provider Feed subscriber		CTT GSM j.schmoe (Joseph Schmoe)								
Feed activity	on off									
Feed elements:	Data points	Last import	Statu							
,	Data points 2184	Last import Thu May 15 10:20:34 GMT-400 2014	Statu OK							
Feed elements:	•	Last import Thu May 15 10:20:34 GMT-400 2014 Thu May 15 10:20:30 GMT-400 2014								
Feed elements: Tag ID 89014103256540803045	2184	Thu May 15 10:20:34 GMT-400 2014	ОК							

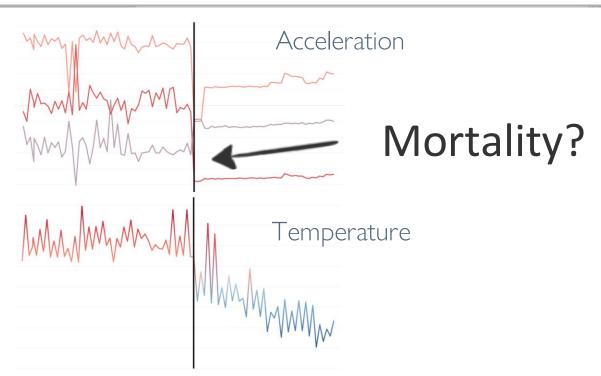
Mortality detection

- 1. Live data feeds
- 2. MoveApps Morning Report



Morning Report

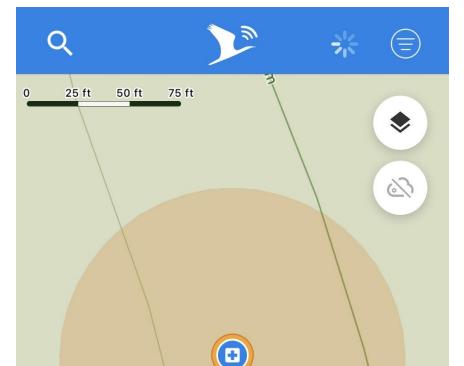
	Show Plots and Map	Animal	Tag	First timestamp	Last timestamp	Last timestamp local tz	N positions last 24h	N positions last 7d	Moved distance last 24h	Moved distance last 7d	Event last 7d
1	•	HL3842749.	2749	2013-07-03 09:10:56	2014-09-10 04:41:02	2014-09-10 07:41:02	10	70	9.548 km	39.435 km	-
2	0	HL4322746.	2746	2013-08-05 18:34:44	2014-09-22 20:00:11	2014-09-22 23:00:11	0	0			no data
3	0	HL4423036.	3036	2013-07-15 07:25:23	2014-05-08 18:00:41	2014-05-08 21:00:41	0	0			no data
4	0	HL4513062.	3062	2013-07-16 12:20:23	2014-09-04 07:41:14	2014-09-04 10:41:14	218	1517	42.339 km	171.717 km	



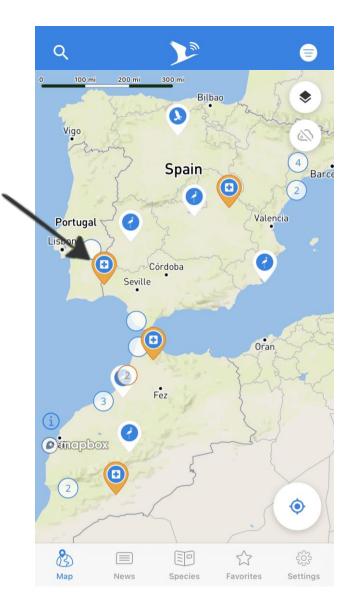


Mortality detection

- 1. Live data feeds
- 2. MoveApps Morning Report
- 3. Animal Tracker alert



Alert





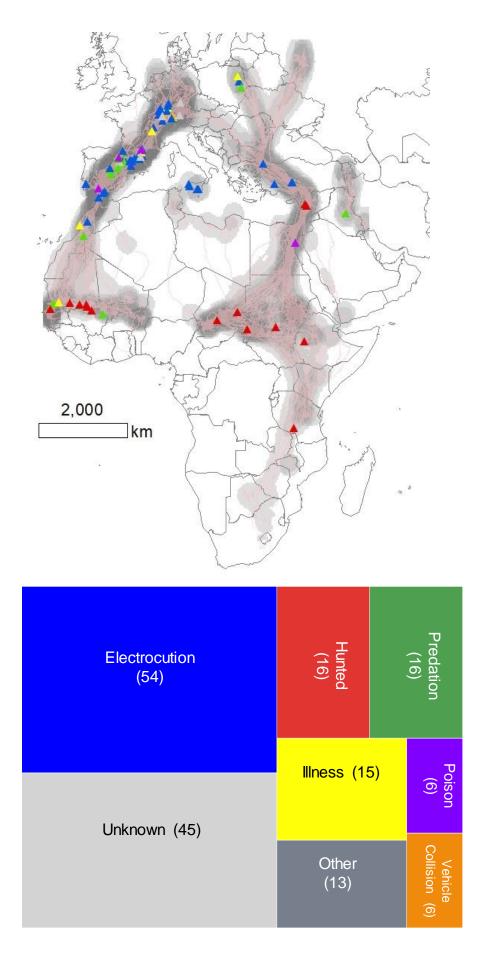
Transmitter Recovery - Mirabelle

Sender Recovery

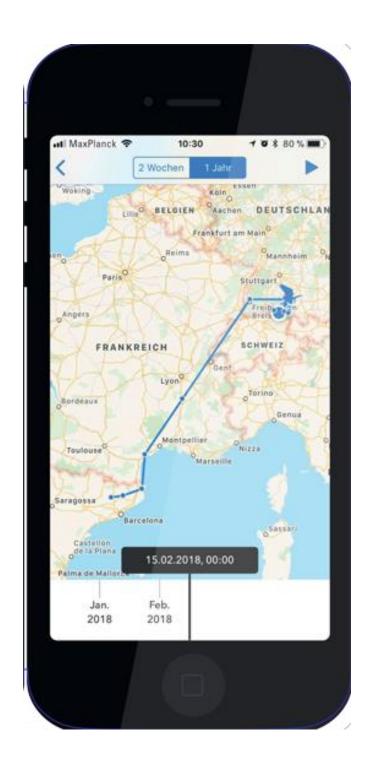
White Stork Mirabelle's transmitter has to be recovered in Spain, at coordinates: 40.76052 / -2.167536

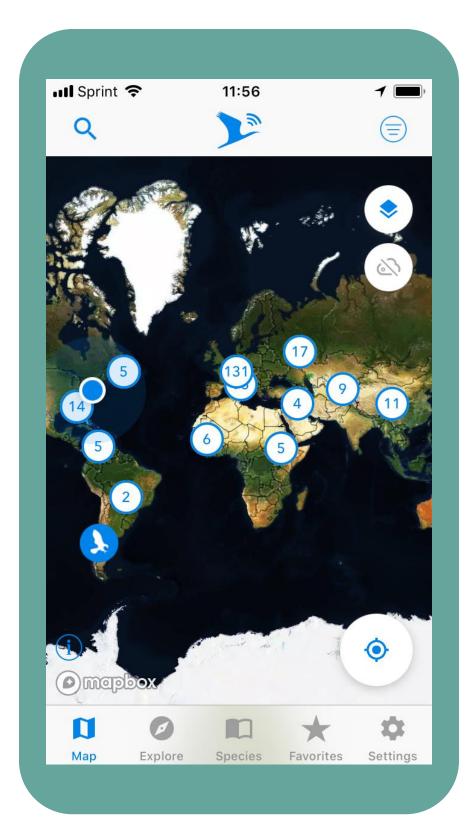
Mortality detection

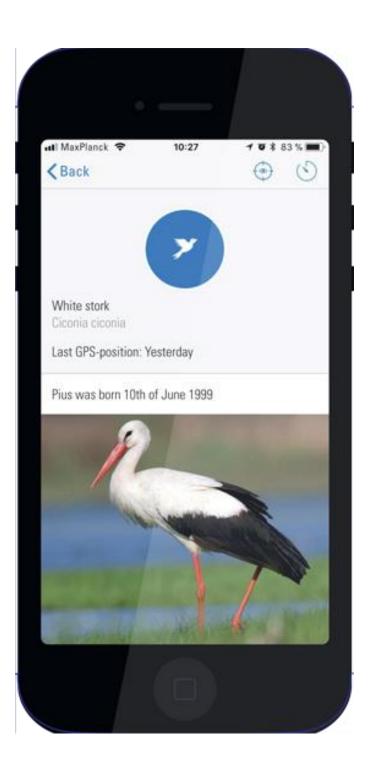
- 1. Live data feeds
- 2. MoveApps Morning Report
- 3. Animal Tracker alert
- 4. Cause of mortality for 171 white storks



Animal Tracker App



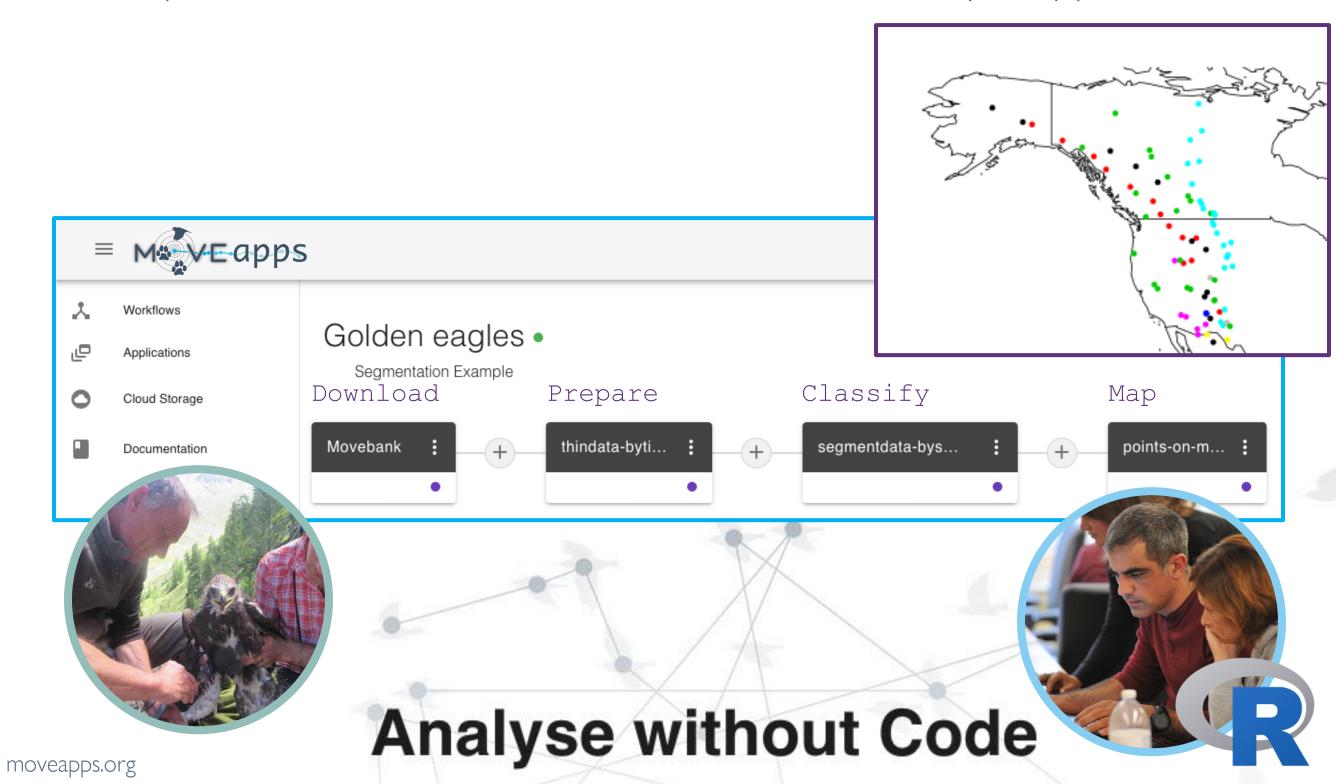




movebank.org/node/124646 Apple AppStore and Google Play

MoveApps

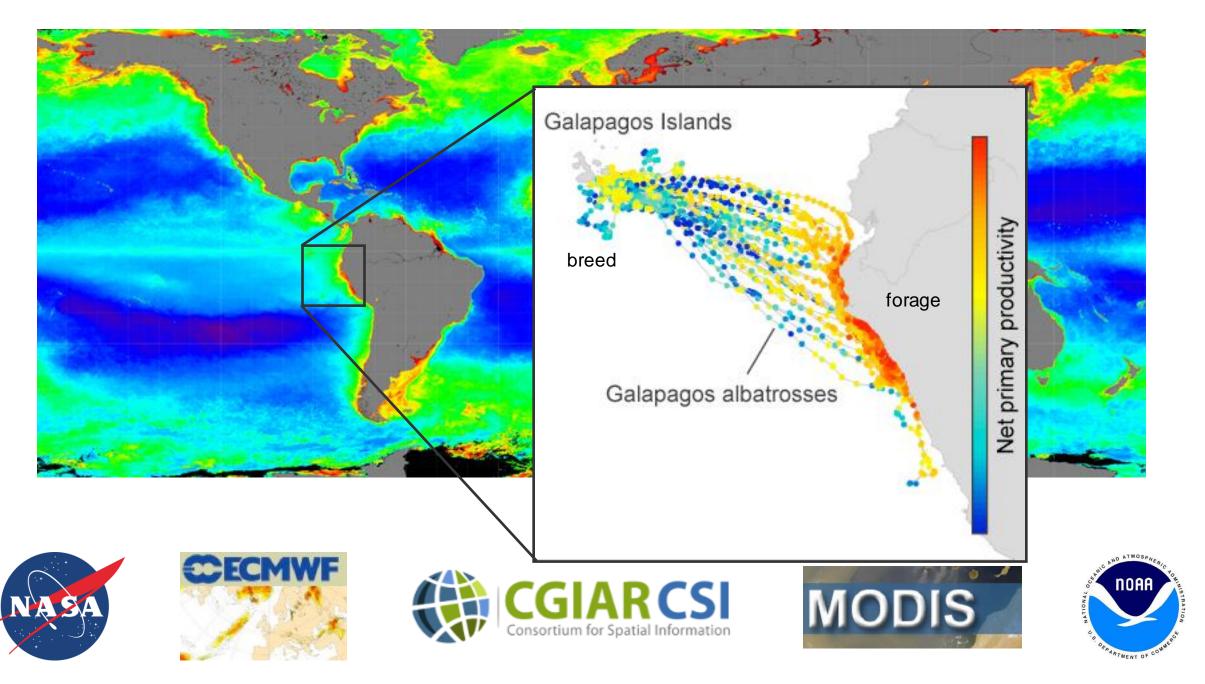
Build repeatable workflows out of user-contributed analysis apps.

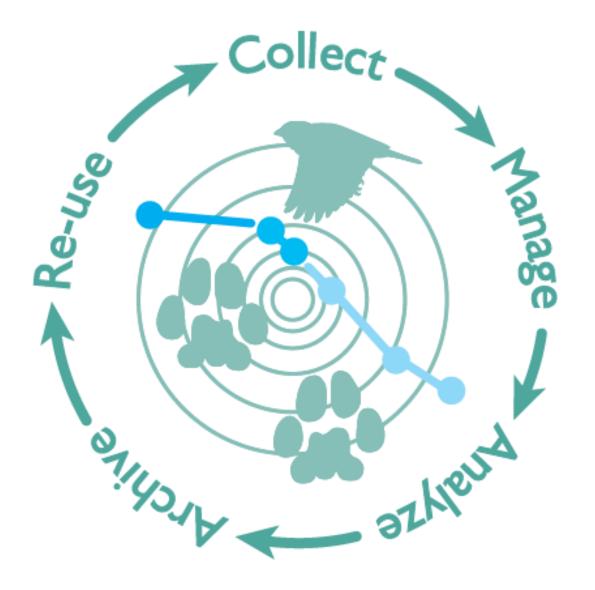


EnvDATA

Environmental Data Automated Track Annotation System

Link to 80 global remote sensing products, 821 variables





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www.movebank.org