

Destination Birding

Using eBird data to inform birders in
Knoxville, TN

By Marilyn Long

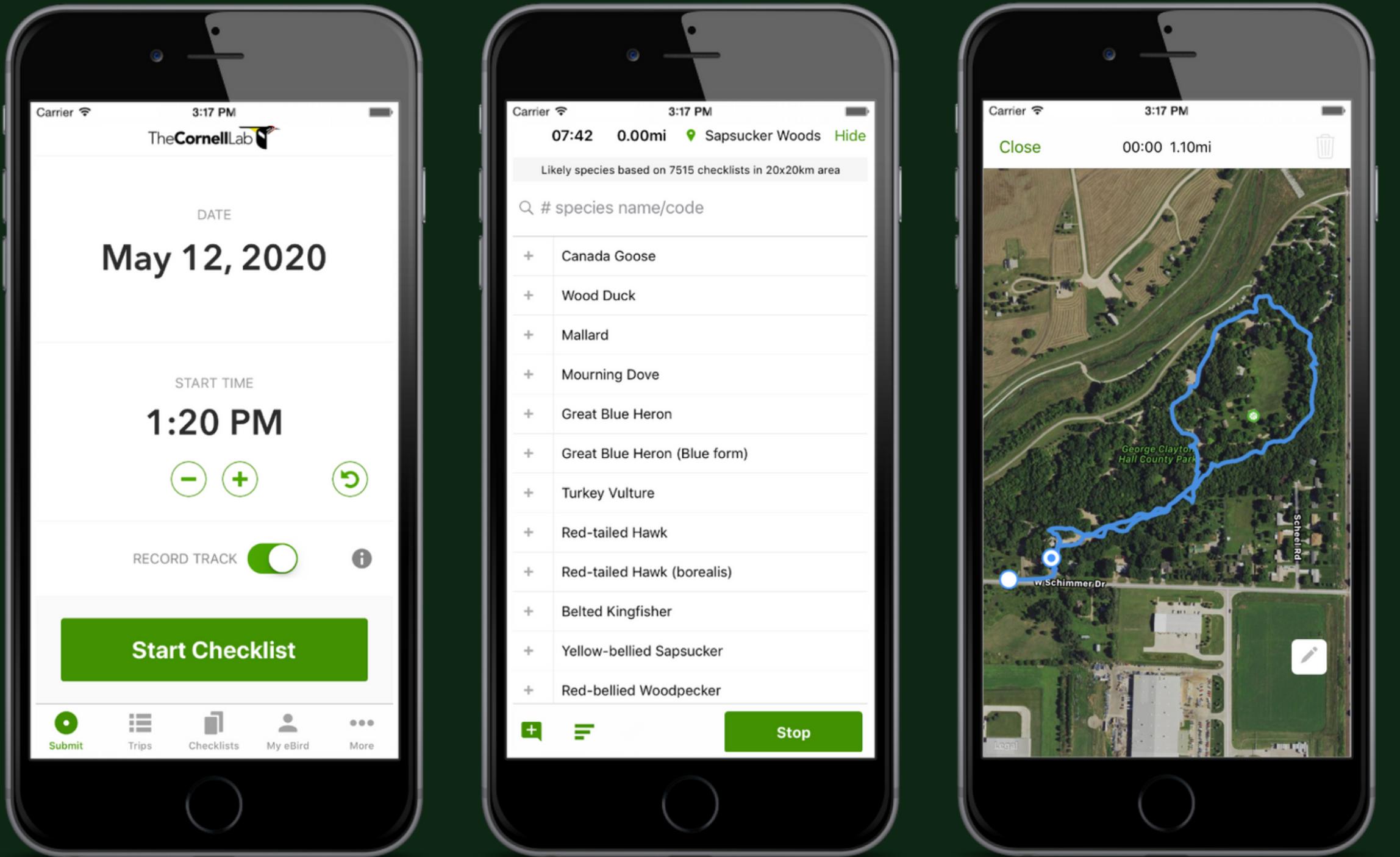




Why does birding matter?

- It is estimated that birding is a \$40 billion industry in the US
- Cities could use the information from my app to promote tourism in their area, boosting the local economy

My Data



- eBird is an application by The Cornell Lab of Ornithology
- Knox County 2016-2022



**DESTINATION
BIRDING**

Species Diversity Map

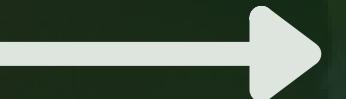


Time Series Analysis

User Inputs
Species



forecast::
auto.arima()



Outputs new
plot

When and Where: Map & Bar Chart

Map:

User Inputs
Species &
Month(s)

Filters by
both inputs

Clustered or
not?

Observations
are grouped
& summed

Outputs new
map

Bar Chart:

Filters by
species only

Observations
are grouped
& summed

Outputs new
bar chart

Thank you!

