

Expanding the Community:

A Pro Bono Project in Conjunction with



ENERGY FOR ALL
A program of GRID Alternatives



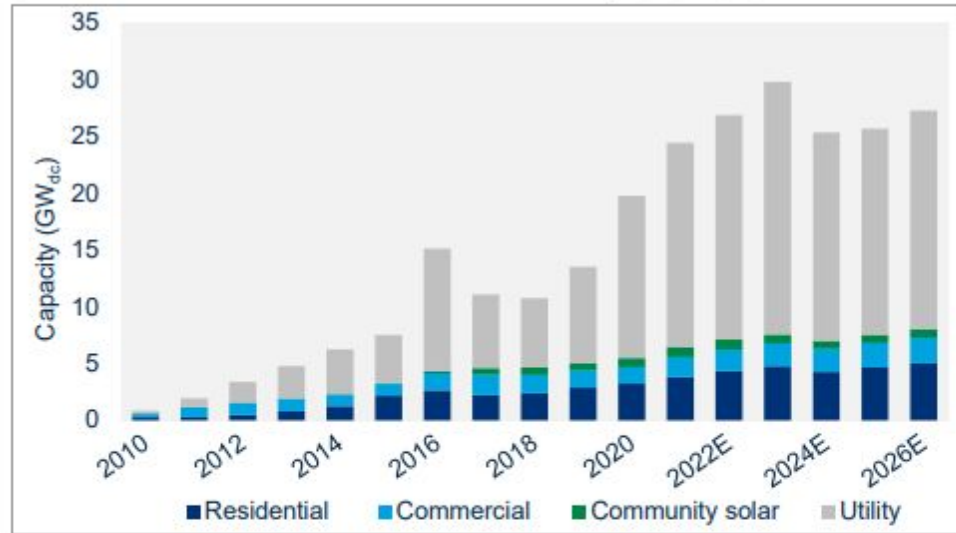
Melissa Cooper
CEO/Founder - DS for Good

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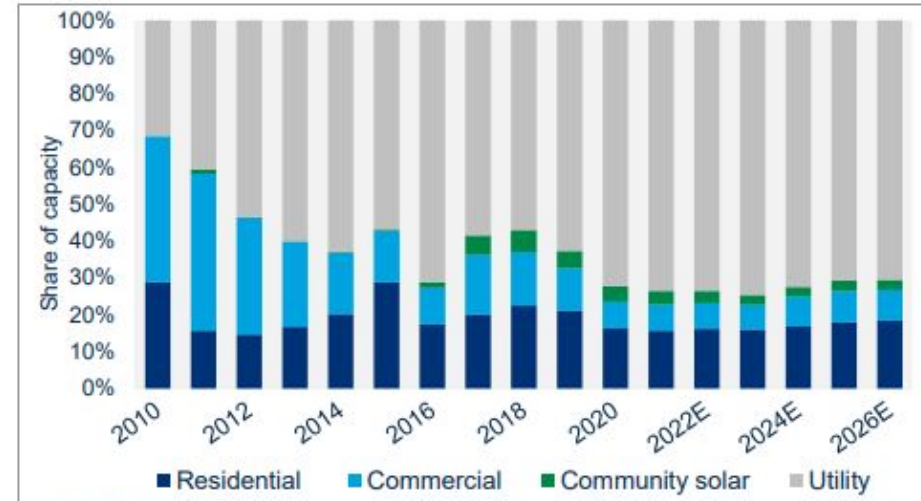


U.S. Solar PV Forecasts

U.S. PV installation historical data and forecast, 2010-2026E

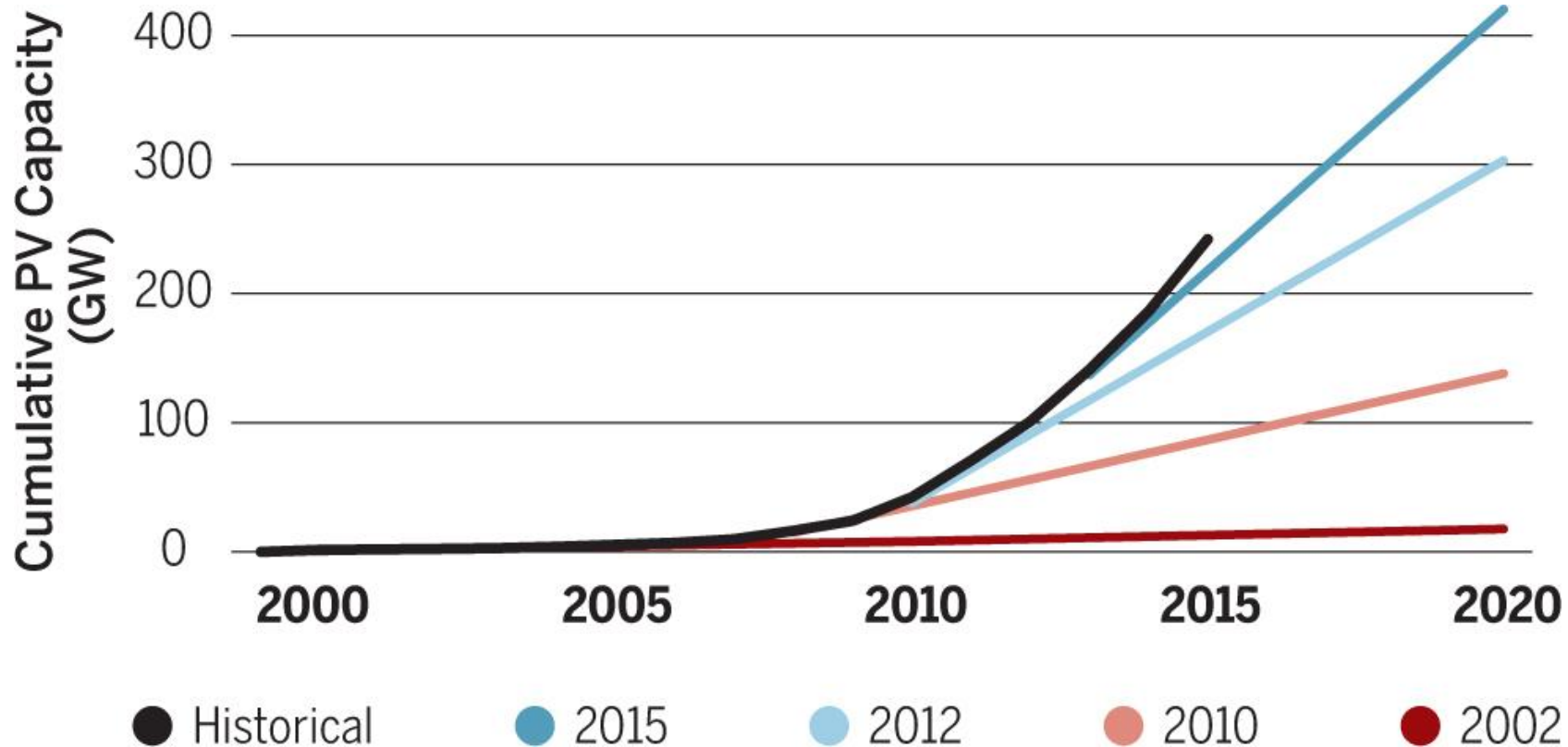


U.S. PV installations by share of capacity, 2010-2026E



Source: Wood Mackenzie

Solar Growth is historically underestimated

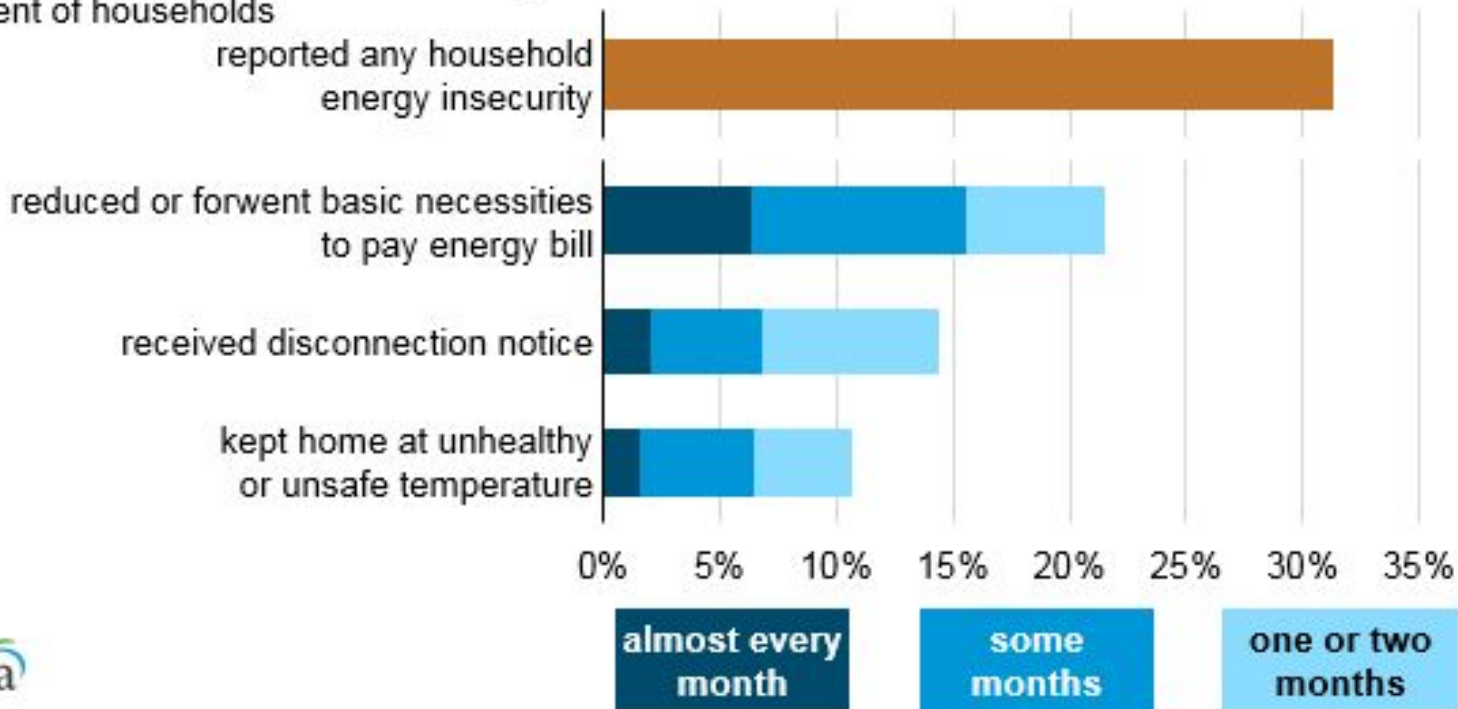


One in three U.S. households faces a challenge meeting energy needs

According to US Energy Information Administration

Households that experienced energy insecure situations, 2015

percent of households



Project objective:

Predict the low-income areas most suitable for and most amenable to participating in community solar projects.



GRID Alternative's Current Impact (according to website)

Systems Installed

16,103

kW Installed

69,842

Lifetime Savings

\$632,870,259

Tons of Greenhouse Gas Emissions Prevented

1,376,283

Participants Trained

45,551

Project benefits

kW installed increase

xx%

Lifetime savings increase

xx%

Tons of GHG Emissions Prevented
Increase

xx%

Methodology (this slide needs work)

The Data



DeepSolar
By Stanford

The Algorithm

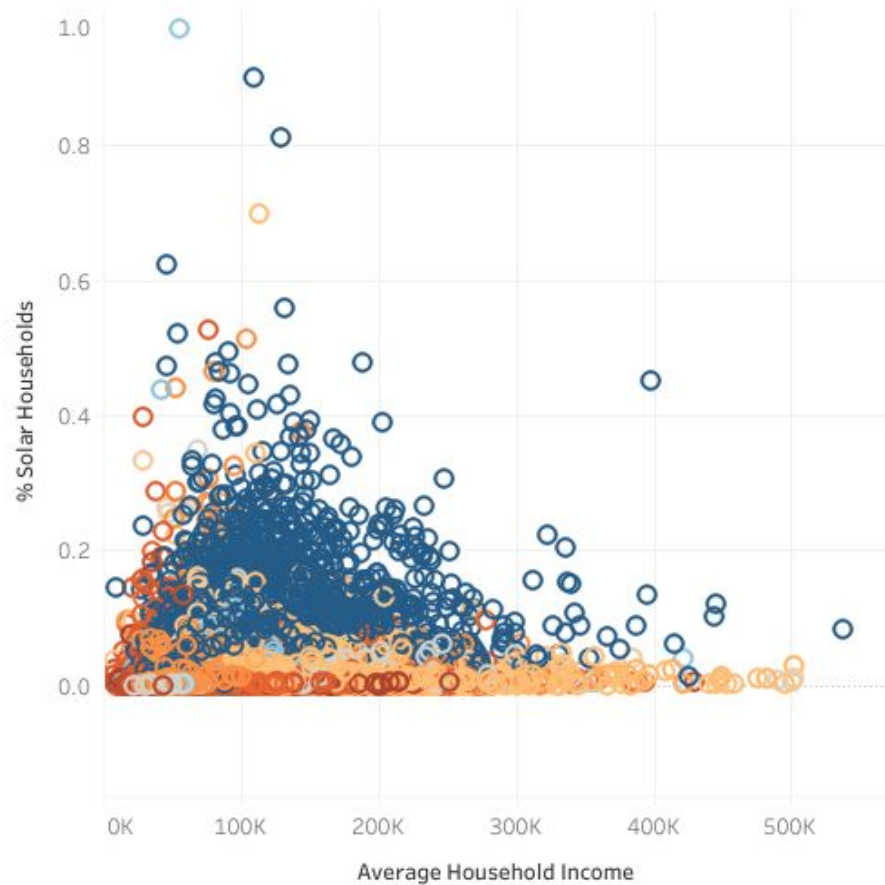
Clustering

- DBSCAN
- K-Means
- KNN

The Prediction

Then identify the outliers with low solar participation as the areas to target.

Average Household Income vs.
% of Houses that have Solar Panels Nationwide



Incentives



Los Angeles County

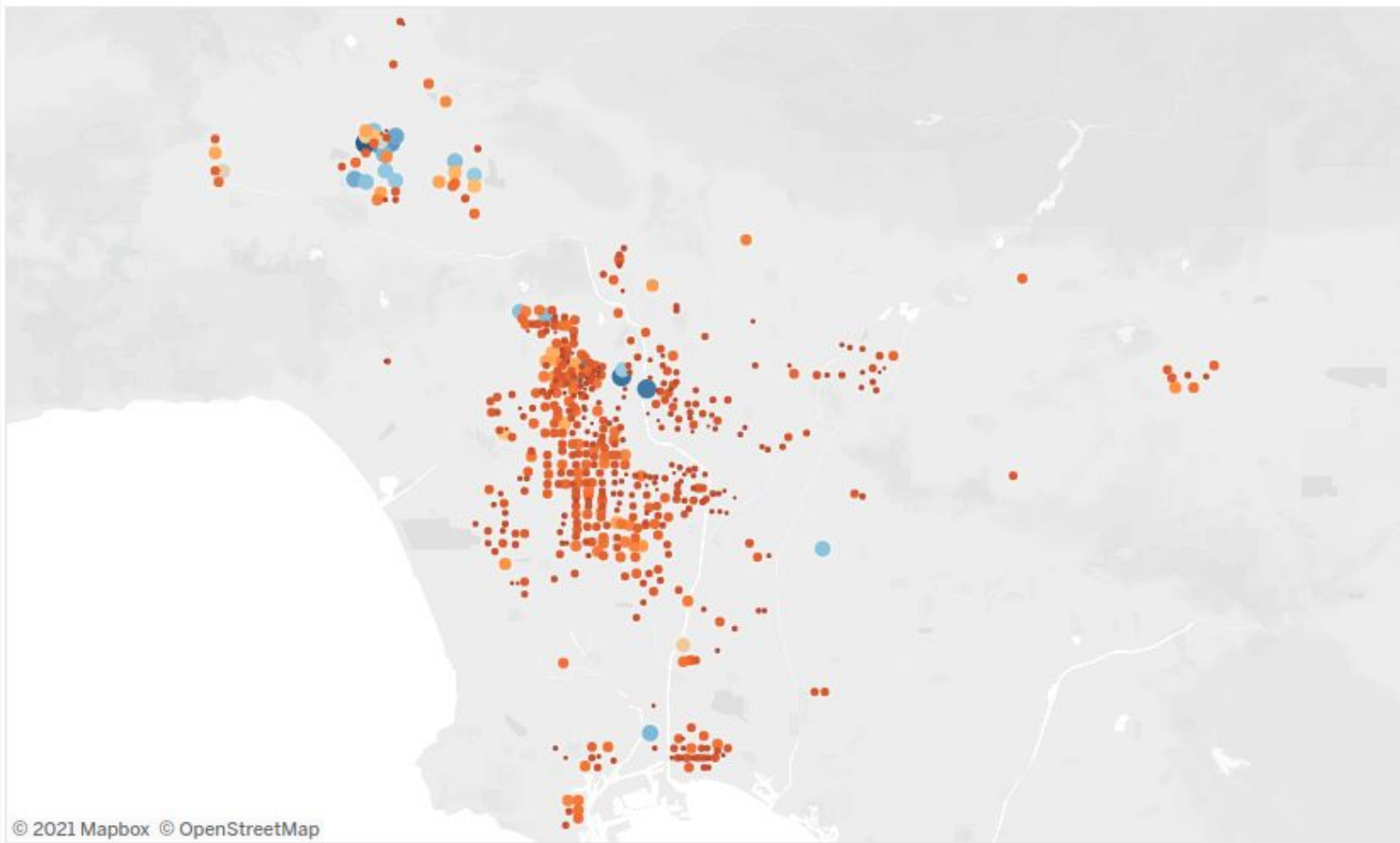
% Households (w/ Average Income < \$50,000) with Solar Rooftops

Solar Adoption Ratio for
Average Income < \$50,000



0.0000

0.1075



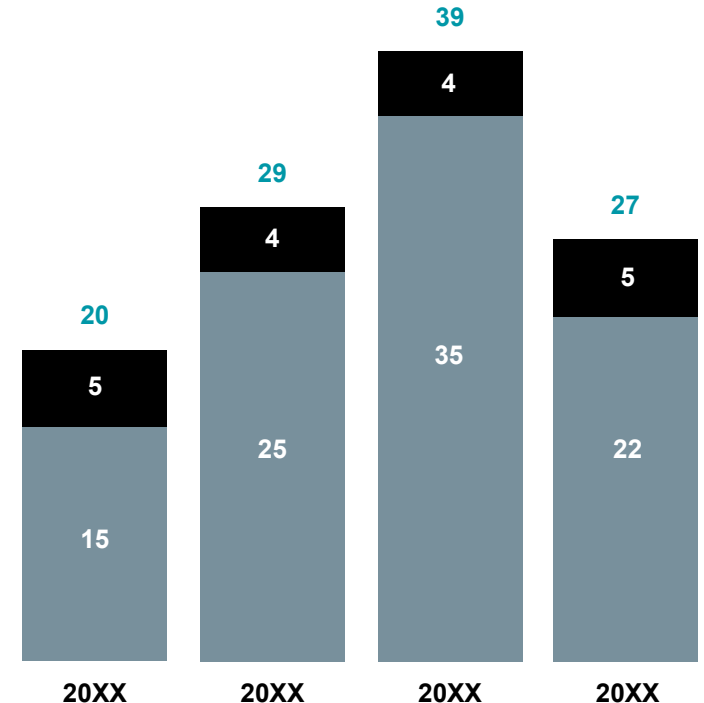
That's all for the MVP...

Findings

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor

Client Implications:

- Incididunt ut labore et dolore
- Consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore



Proposed deliverables

Deliverable 1

- Lorem ipsum dolor sit amet
- Sed do eiusmod tempor incididunt ut labore

Deliverable 2

- Lorem ipsum dolor sit amet
- Sed do eiusmod tempor incididunt ut labore

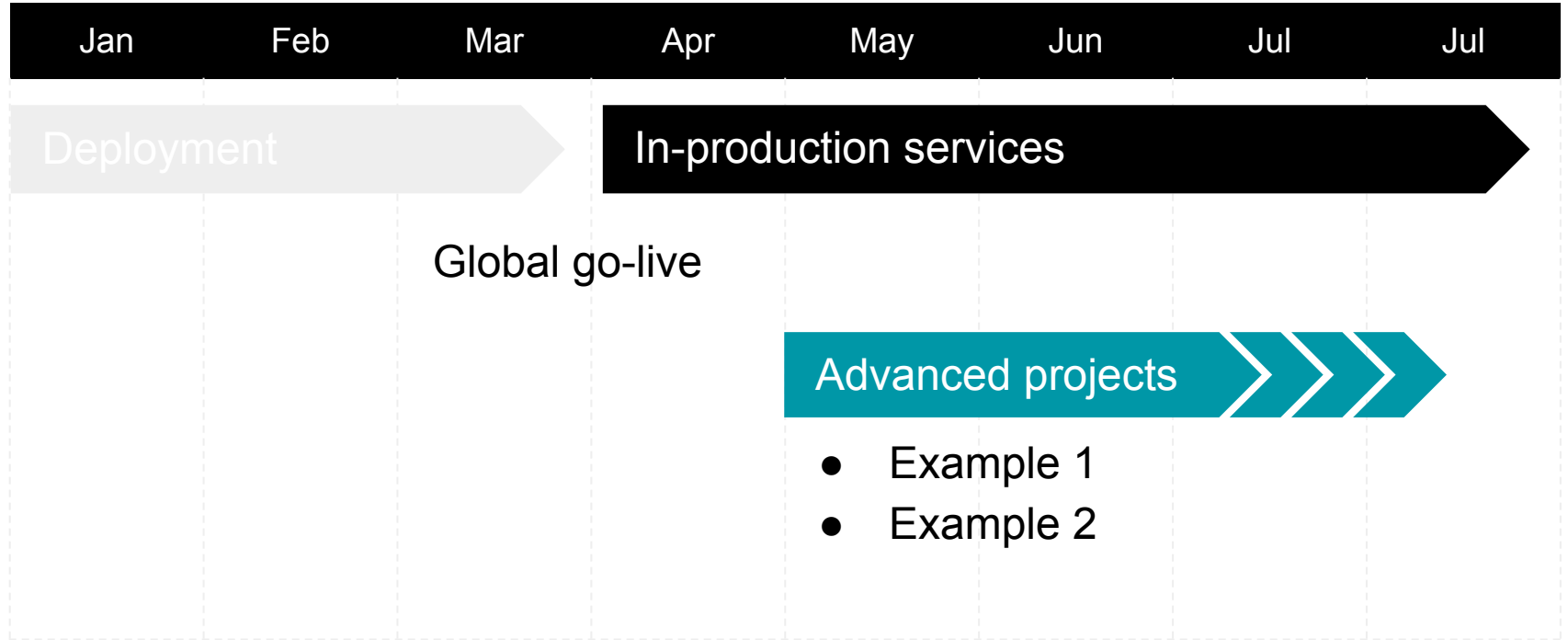
Deliverable 3

- Lorem ipsum dolor sit amet
- Sed do eiusmod tempor incididunt ut labore

Deliverable 4

- Lorem ipsum dolor sit amet
- Sed do eiusmod tempor incididunt ut labore

Timeline



The Team



Wendy Writer, CEO

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adipiscing elit, sed do
eiusmod tempor



Ronny Reader, CFO

Ut enim ad minim veniam,
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Abby Author, CTO

Duis aute irure dolor in
reprehenderit in voluptate
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fugiat nulla pariatur



Berry Books, CPO

Excepteur sint occaecat
cupidatat non proident,
sunt in culpa qui officia
deserunt mollit anim id est
laborum