



—WORLDCASTR—

From ideation to operation

Bring data and models. Compare forecasts.
Codesign what happens next.

WORLDCASTR.COM



THE PROBLEM

We live in an adversarial system of permitting.

ENERGY · LAND · WATER · TRANSPORTATION · CONSTRUCTION

This map illustrates the relationship between data, transmission infrastructure, fiber, and metropolitan areas. The dataset was not produced or curated by the U.S. Department of the Interior and is not responsible for the accuracy, reliability, or completeness of the data.

This work was authored by the National Institute of Standards and Technology (NIST) for the U.S. Department of Commerce under Contract No. DE-AC05-15OR21400. The views expressed in the article do not necessarily represent the views of the U.S. Department of Commerce or NIST.

America used to build.



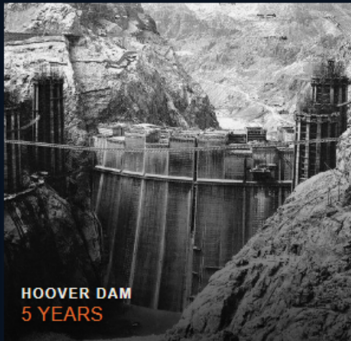
EMPIRE STATE BUILDING
410 DAYS



PENTAGON
16 MONTHS



SPACE NEEDLE
8 MONTHS TO TOWER



HOOVER DAM
5 YEARS



KAISER SHIPYARDS
2 YEARS TO BUILD THE YARDS

What **SCENARIO PLAN** position
costs a rezoning

Austin
map

SCENARIO
Extra height

How much taller than today's zoning limit the application
was for, not the building's total height

Neighborhood opposition 21 of 100

Strength of organized protest near the site, indexed 0 to
100. Distance-weighted, so nearby signatures count for
more

WHAT THE SCENARIO IMPLIES

Parcels estimated 271,567

Added time to a decision, average 1.1 years

Added time, hardest hit 5% 1.9 years

Height given up, none, 4.3 ft above the request
average

Flagged at risk of withdrawal 10.7% of parcels

In this setting the model expects approvals to land above
the height requested, on average

DISPLAY

Flag withdrawal risk above +51 pts

Parcels whose withdrawal risk rises by more than this many
percentage points are drawn flat and grey. This changes
the picture only, not the estimates

■ 1.6 Edit height and opposition, then see approval time and withdrawal risk change across the city.

Change the assumption. See the consequences.



Worldcastr forecasts the next 30 years.

2030

Home Value

Single

Comp

Growth

Growth \$

Value

\$417K

\$887K

\$1.4M

Get Free API Key

CLIFTON PASSAIC v1.4.0-beta3

TEB

NEWARK

JERSEY CITY

New York

Newark Bay

Upper New Bay

YONKERS

MOUNT VERNON

KENSACK

GLEN COVE

Great Neck

Great Neck Plaza

Roslyn Heights

Albertson

North New Hyde Park

Floral Park

Elmont

North Valley Stream

Valley Stream

Garden City

HEMPSTEAD

Roosevelt

Baldwin

East Meadow

Salisbury

New Cassel

Hicksville

LEVITTOWN

Jericho

Oyster Bay

Mill Neck

Lattingtown

Bayville

Category positioning

Worldcastr combines forecasting, scenario editing, and measured outcomes for the same physical decision.

PLANNING SYSTEMS



Esri



ArcGIS Hub

OpenGov

OpenGov

Maps, permitting, projects, and records

SCENARIO FIRMS



UrbanSim



REMI



Replica

Consultant models and fixed assumptions

FOUNDATION MODEL LABS



OpenAI



Anthropic



Prior Labs

General reasoning and numerical forecasts

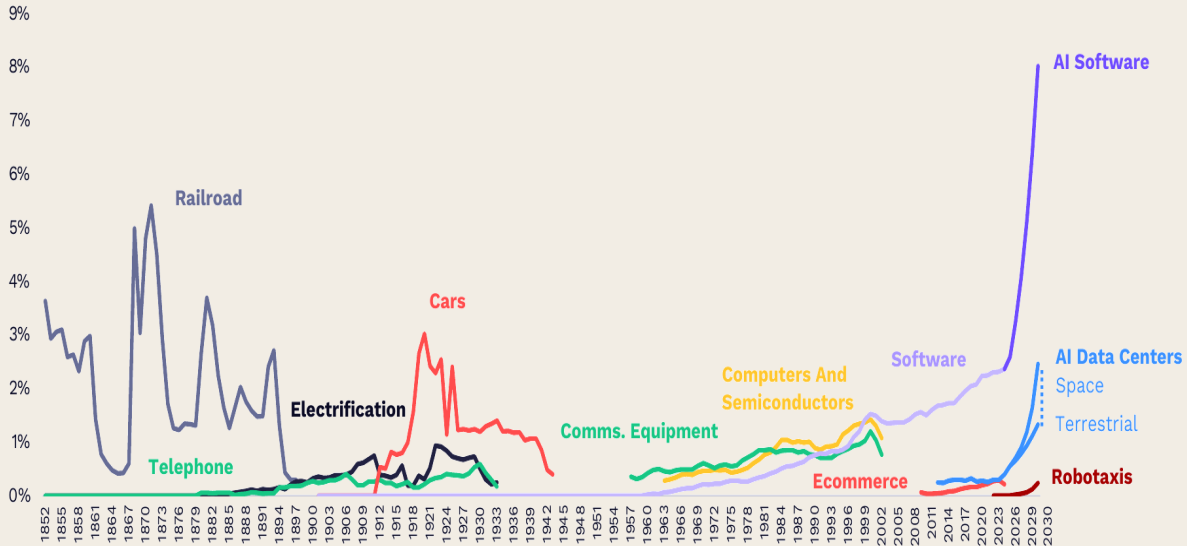
WORLDCASTR

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Physical-development foundation model,

Select Historical Technological Investment Waves

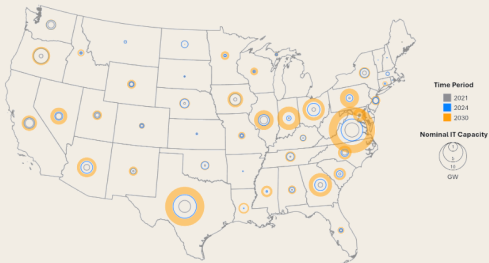
Capital Expenditures As Percent Of GDP



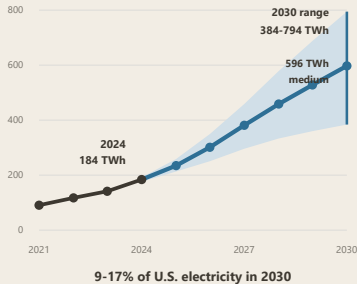
Why now

Energy and compute are growing explosively.

WHERE CAPACITY IS PLANNED



HOW FAST DEMAND COULD GROW

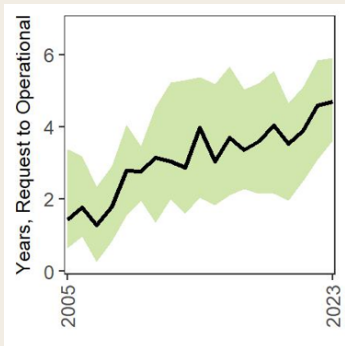


EPRI, Powering Intelligence 2026. Rings and shading show low-to-high 2030 scenarios.

Why now

The time from request to operation is getting longer.

MEDIAN TIME FROM INTERCONNECTION REQUEST TO OPERATION



THE WAIT MORE THAN DOUBLED

**Under 2 years →
more than 4 years**

Projects built in 2000-2007 → 2018-2023

Test the forecast before the build begins.

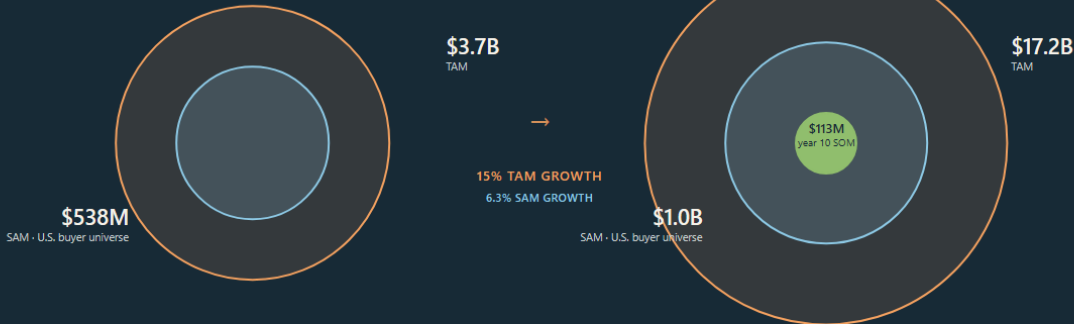
MARKET

A large infrastructure buildout creates a large planning market.

TAM and SAM show annual market revenue. SOM shows Worldcastr's modeled Year 10 revenue.

2025

2036



TWO-SIDED MARKET

Private developers and permitting agencies plan the same project from its first conception.

PRIVATE DEVELOPERS

Data-center developers, power developers, utilities, and infrastructure owners.

ONE PROJECT

Permitting, land, power, water, and transportation.

PERMITTING AGENCIES

Local, regional, state, utility, and federal agencies.

MAG | CITY OF AUSTIN | SRP | CALTRANS | TXDOT

Time Period



Nominal IT Capacity



Selected organizations in direct discussions

BROADER MARKET

The same decision follows the capital.

BUILD AND OPERATE

Utilities, infrastructure owners, developers, and builders.

FINANCE AND INVEST

Banks, infrastructure funds, and real estate investors.

INSURE AND MANAGE RISK

Insurers, reinsurers, and institutional risk teams.

ADVISE AND DISTRIBUTE

Engineering firms, property advisors, and geospatial platforms.

SRP | EAGLE ROCK VENTURES | KIMBALL FAMILY INVESTMENTS | LORICA | CBRE | THE FORECASTING COMPANY

Selected organizations in direct discussions

Customer demand

Private developers and public agencies need one decision model.

PRIVATE PROJECT AND CAPITAL



SRP

Eagle Rock Ventures



KIMBALL FAMILY INVESTMENTS

Kimball Family Investments

Eagle Rock Ventures

ONE SHARED PROJECT

POWER
LAND
WATER
TRANSPORTATION
CONSTRUCTION

PERMITTING AND PLANNING



MAG

Austin

Caltrans

City of Austin

MODEL, DATA, AND RESEARCH CONVERSATIONS



The Forecasting Company



TimeCopilot

TimeCopilot



Dell'Oro Group



Lorica

NBER

Research



Columbia Business School



Preseen

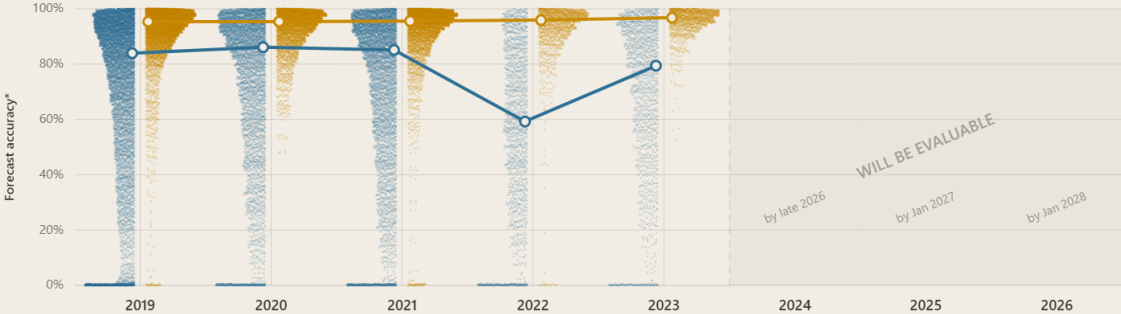


Polymarket

Benchmark evidence

Population and occupied housing | 1 to 4 years ahead | Forecast accuracy*

● Worldcastr ● Public benchmark



*Accuracy = 100% minus absolute percentage error, floored at 0%.



AMERICAN COMMUNITY
SURVEY



DENVER REGIONAL
COUNCIL OF
GOVERNMENTS



MARICOPA ASSOCIATION
OF GOVERNMENTS



METROPOLITAN
WASHINGTON COUNCIL
OF GOVERNMENTS



SAN DIEGO ASSOCIATION
OF GOVERNMENTS

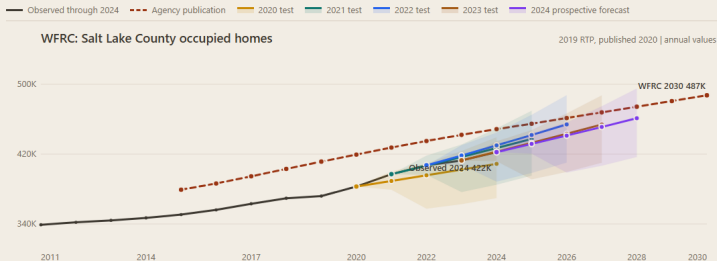


WASATCH FRONT
REGIONAL COUNCIL

Product evaluation

A benchmark against which they can evaluate their own plans and later outcomes.

SAME PLACE. SAME LATER OUTCOME. LOWER ERROR WINS.



ACTUAL SOLICITATION

Request for Qualifications, Consultant Pool 2017-2019
Transportation and Land Use Connection & WFRC/MAG Model Development Support
reduce uncertainty of the potential outcomes of different transportation investments and land use policies in private development decisions.

The REHMI helps us understand land development and transportation as related systems, rather than assuming that development decisions will be static regardless of how we invest in transportation, and vice versa. By more fully understanding how transportation decisions will function long-term, in the real world, REHMI helps us better gauge the relative benefits of various competing transportation investment decisions. The net result is better stewardship of public resources.

WFRC and the MAG have been jointly working on the development of REHMI for several years. This model runs on the open-source Simulation software platform. We currently have a functioning, calibrated model that is undergoing testing and refinement.

Spanning tasks include, but are not limited to, the following:

- Backcast calibration and validation
- REHMI model preliminary application and continued refinement
- Continue to work with expert consultants and local expert panels to refine and update model
- National Expert Panel Review
- Automation of the visualization of model inputs and outputs

WFRC/MAG Model

Development Support RFQ

Backcast calibration and validation
Model refinement

Input and output visualization

WFRC 2019 RTP forecast. Each Worldcastr path uses only information available at its historical test date. County view uses a documented crosswalk. WFRC/MAG

Model Development Support RFQ, pp. 1 and 7.

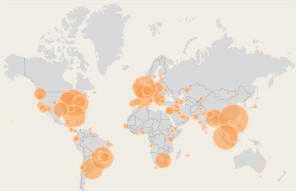
Traction

We see significant organic interest.

50M+

observations

Request Distribution



9M

production requests each week

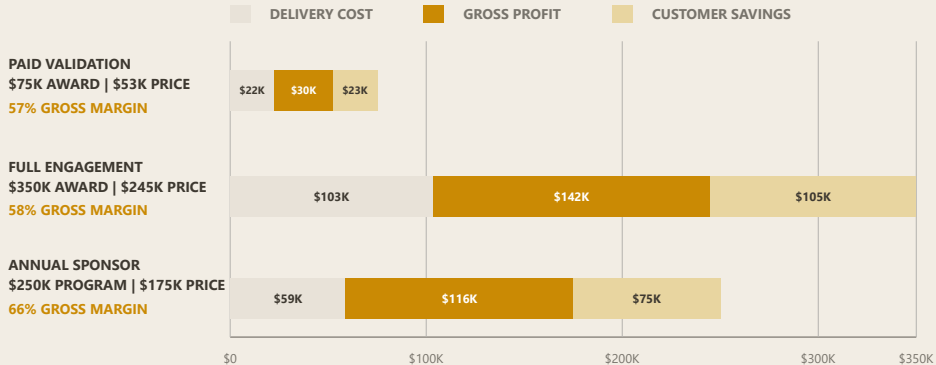
8.8M

AUTOMATED REQUESTS FROM TENCENT SINGAPORE

One anonymous cloud cluster repeatedly
collected Worldcastr at scale, consistent
with outside commercial or model-development interest.

Business model

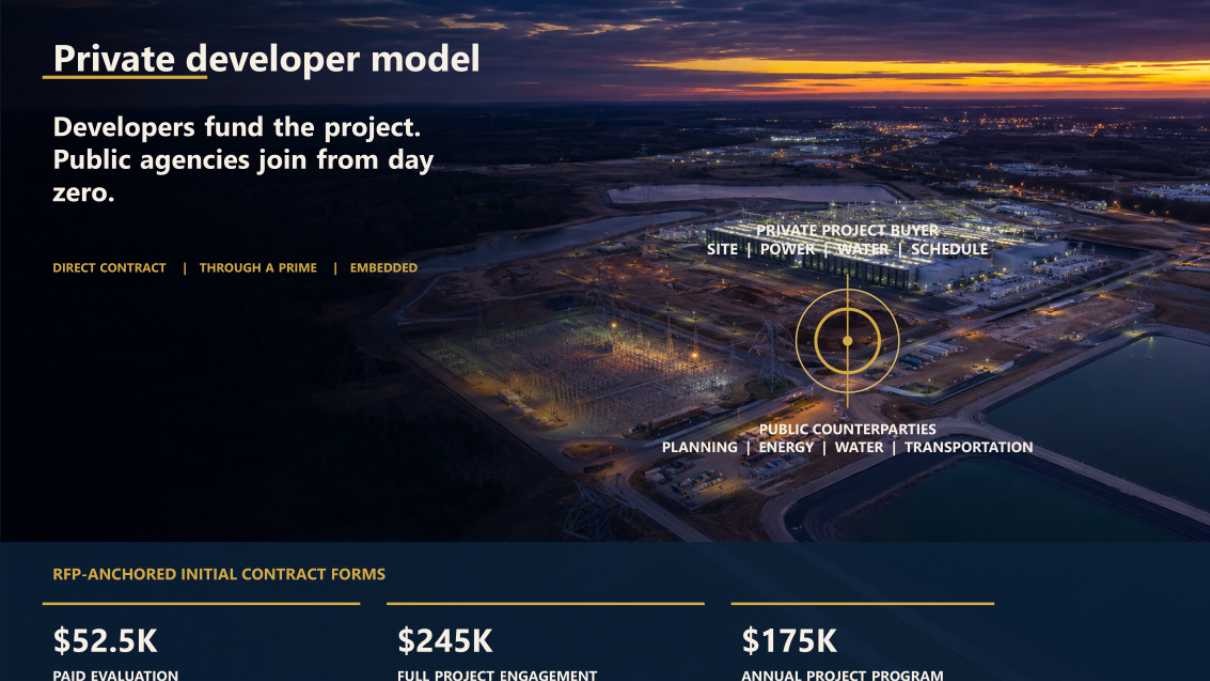
We are bidding on government contracts right now.



Private developer model

Developers fund the project.
Public agencies join from day
zero.

DIRECT CONTRACT | THROUGH A PRIME | EMBEDDED



PRIVATE PROJECT BUYER
SITE | POWER | WATER | SCHEDULE

PUBLIC COUNTERPARTIES
PLANNING | ENERGY | WATER | TRANSPORTATION

RFP-ANCHORED INITIAL CONTRACT FORMS

\$52.5K

PAID EVALUATION

\$245K

FULL PROJECT ENGAGEMENT

\$175K

ANNUAL PROJECT PROGRAM

Competition

The existing categories each enter the decision from a different layer.

SYSTEMS OF RECORD



Esri



ArcGIS Hub

OpenGov

OpenGov

Maps, permitting, projects, and records

SPECIALIST MODELS



UrbanSim



REMI



Replica

Consultant models and fixed assumptions

FOUNDATION MODEL LABS



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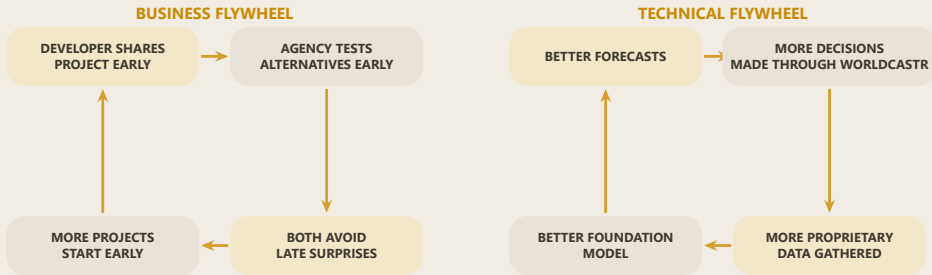


Prior Labs

General reasoning and numerical forecasts

Moat and flywheel

More projects join. Each project improves the model.



Permissioned reuse: contracts specify which contributed data, derived intelligence, and model improvements Worldcastr may reuse.

Founder



**Daniel Hardesty
Lewis**

Founder and CEO

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+1 713 371 7875

I helped build similar large-scale public-private platforms.

2 PEER-REVIEWED PAPERS 70+ PUBLIC DATASETS 1M-NODE JOBS ON FRONTERA



**TEXAS ADVANCED
COMPUTING CENTER**

1M-node-scale jobs
on Frontera



**DARPA
WORLD MODELERS**

2 peer-reviewed
publications



**AMERICA'S
SEED FUND**

SBIR and STTR
qualified



**SOUTH PARK
COMMONS**

Entrepreneur in
Residence

Founder Market Fit

I helped build similar large-scale public-private platforms.



TDIS

A shared home for disaster data, models, and decision support.

\$42.4M total program



TEXAS ADVANCED COMPUTING CENTER

Led the core data system across 70+ public datasets and ran 1M-node-scale jobs on **Frontera**, a **top-5 supercomputer at launch**.



WORLDCASTR

One platform for agencies, utilities, developers, and models to forecast and test energy, land, water, and transportation decisions.

TDIS: 67 flood models | 51 counties | 22,635 square miles

TDIS / IDRT PARTNER ECOSYSTEM



FEMA



NOAA



NWS



USACE



USGS



Texas GLO



TDEM



TxGIO



TWDB



TxDOT

Selected private-sector collaborators listed by IDRT: Microsoft, Teleki Consulting, January Advisors, Matter & Form

I built multi-model systems for physical-world decisions.



WORLD MODELERS

Combined cause-and-effect analysis, quantitative models, and data to forecast subnational outcomes and recommend actions.

\$70M+ program



DANIEL'S INTEGRATION WORK

Integrated hydrology, climate, agriculture, economics, and disaster models.

2 peer-reviewed publications



WORLDCASTR

Turns those same ingredients into a live platform for institutions to forecast, test interventions, and compare scenarios.

24-MONTH PLAN

[WORLDCASTR.COM](https://worldcastr.com)

DANIEL@WORLDCASTR.COM

We will meet these milestones.

24-MONTH MILESTONES

Benchmark forecasts from 5+ permitting agencies

Score population, occupied housing, and land-use outcomes

Run one project with a developer and its permitting agencies

Close two paid evaluations and one annual contract



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Team

Team composition.

Team build

The first round builds product, deployment, and geospatial-model capacity.

OPEN ROLE

Founding Product and Platform Engineer

Product engineering
API and MCP access
Reliability and security

OPEN ROLE

Founding Deployment Strategist, Public Sector

Customer deployments
Procurement support
Pilot delivery

PLANNED ROLE

Founding Geospatial Machine Learning Engineer

Benchmark data
Geospatial ML
Scenario models

Specialist contractors cover security, compliance, and procurement support as needed.