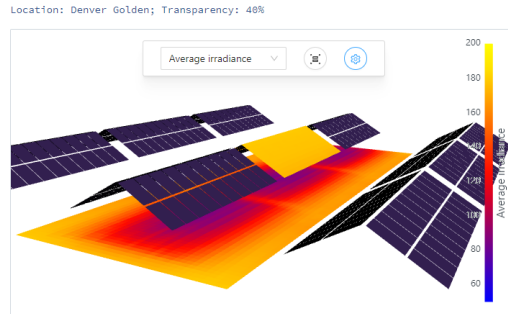# Agrivoltaic Design Software: *"Know Before You Grow"*

A simulation tool to provide developers, farmers, and researchers the data they need for a successful project.

AMERICAN MADE SOLAR PRIZE
U.S. DEPARTMENT OF ENERGY

Input Variables > A.I. & Statistical Algorithms > Output Data

Crop Type
Configuration
Climate

Location: Denver Golden; Transparency: 40%

Average irradiance

- Photon Flux Density
- Suggested Crops
- Potential Crop Yield
- Soil Temp & Moisture
- Solar Production: kWh

Market Size:
10GW by 2030
$10 Billion Industry
Over 550 Rural Job Created

MVP COMPLETE

"Set!" Competition   **"Go!" Competition**

WEBSITE HOME
▸ Agrivoltaic information   ▸ Visual Data   ▸ Web App Access

AV MODELING
▸ Cloud-Based Web Application
▸ Parametric Design Inputs
▸ Irradiance Output

DATA + IOT
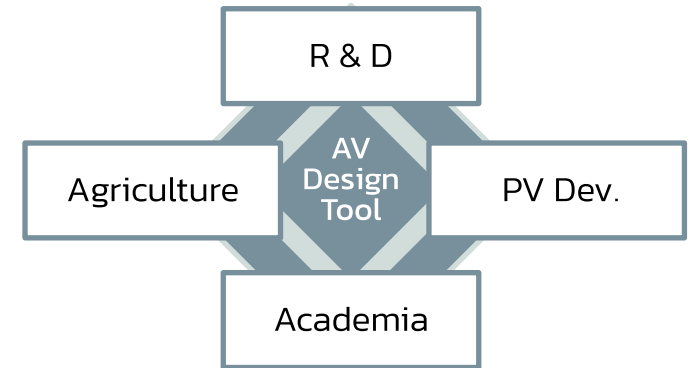▸ Real-time data visualized online
▸ Measuring agrivoltaic conditions at test plots
▸ Irradiance, Tempurature, Soil Moisture

DATA + IOT
▸ Validate AV Model Outputs
▸ Increased deployment of data monitoring across US regions

AV MODELING
▸ Add crop-based parameters
▸ Increase model outputs
▸ Other response to customer base needs and wants

R & D

Agriculture — AV Design Tool — PV Dev.

Academia

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