



BRIGHTLY.AI

TUM.AI Makeathon 2022



**Global CO2
emissions are on
their highest level in
history**

**Energy generation
is responsible for 73%
of global emissions**





**Prices for
renewables
have dropped
by 60%**

**Lots of unused
land with great
potential**



Brightly.ai utilizes existing satellite data...



Satellite Imagery

...unleashes the full power of AI...



Satellite Imagery



Artificial Intelligence

...to achieve our ambitious mission



Green electricity for
everyone everywhere

Introducing Brightly.ai



Customer enters location

Introducing Brightly.ai



Customer enters location



Assessing possible locations for
renewables using satellite imaging



Recommending renewables type based on
historical sunlight and wind

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Installment of renewables system via
partner network



100% sustainable energy supply for
the community

Impact

We reduce emissions, contributing to social good



1 hectare of solar panels is
able to **save 2.500 tons of
CO2** per year

Assuming an average of 1kg of CO2 per kWh for coal based electricity and 5.000 300 watt solar panels per hectare with an average of 5 hours direct sun per day.

Customer Segments

We address 2 different customer segments to create maximum social and environmental impact

Governments



Farmers

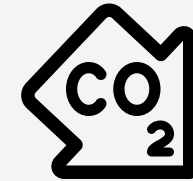


Governments own lots of unused land and need brightly.ai to find suitable locations for large-scale renewables sites

Governments



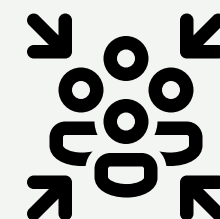
Implementation of effective environmental policies



Reduce GHG emissions from electricity



Achieve climate targets



Provide public with affordable and green electricity

Customer Segments

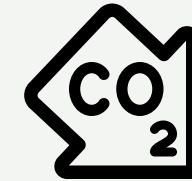
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Governments

SaaS Model



Implementation of effective environmental policies



Reduce GHG emissions from electricity



Achieve climate targets



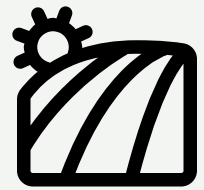
Provide public with affordable and green electricity

Customer Segments

Farmers analyze their land to find ideal spots for renewables placement, saving money and improving sustainability



Dynamic photovoltaic panels to generate renewable energy



Increase crop yield by protecting plants from frost, hail and sun



Reduce water usage by up to 30%



Earn an extra income

Farmers



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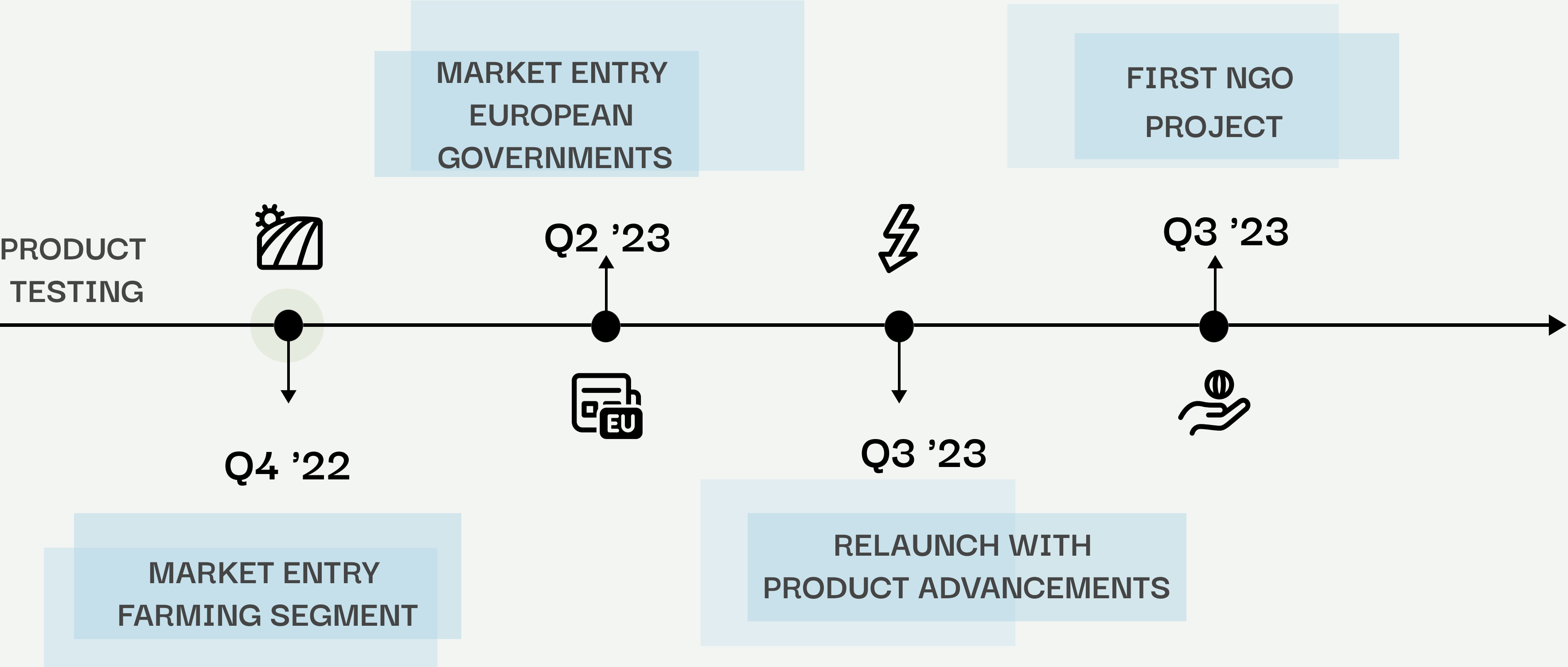
Earn an extra income

Farmers

Affiliate system



The time to act is now: We have exciting months ahead



Product Demo



Team

Who's behind the movement



Lilly Kämmerling
Operations



Leonard Wolters
Strategy



Leopold Wieser
AI



Clarissa Anjani
Frontend



Juan Carlos Climent
Backend

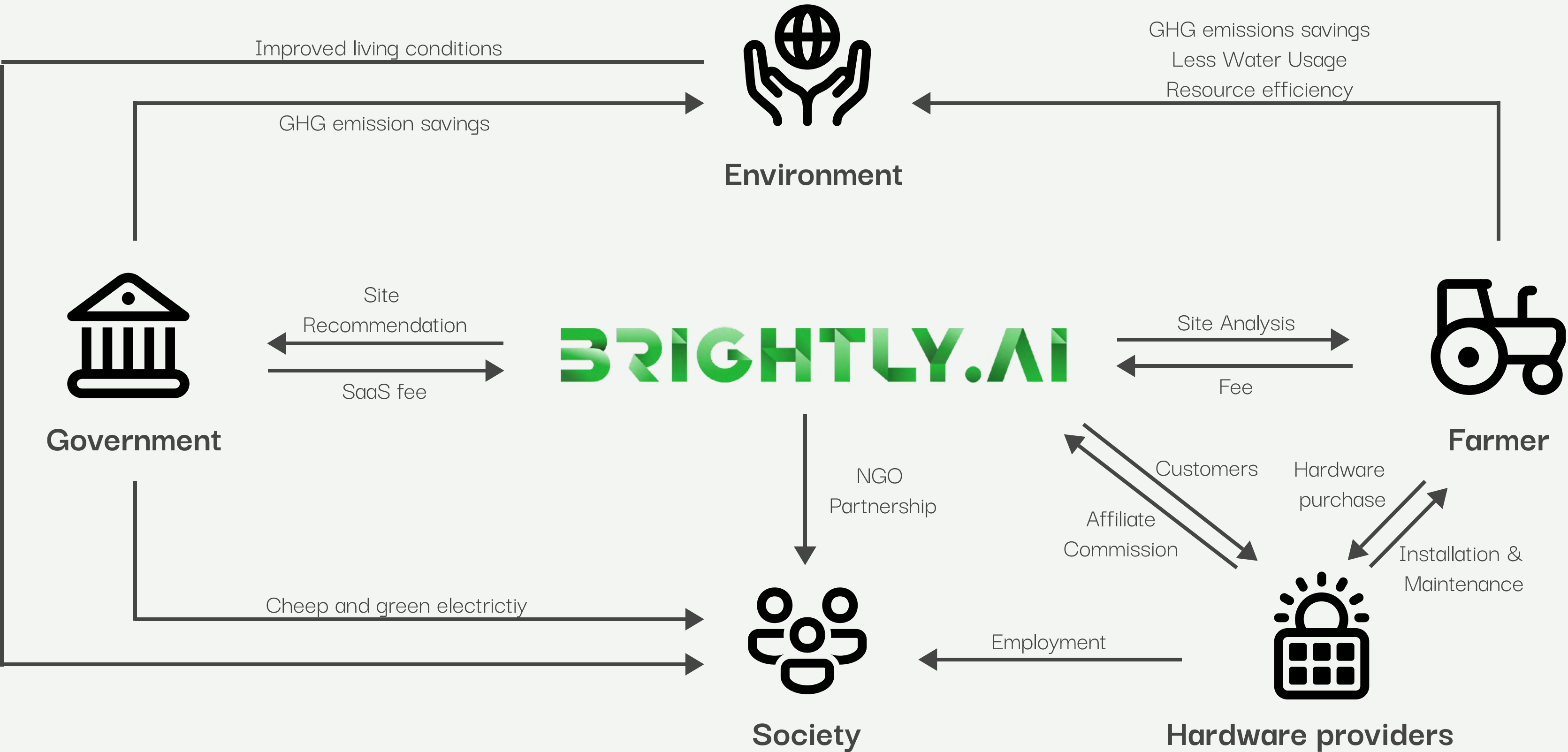


Green electricity for
everyone everywhere

Thank you!

Backup

Value Diagram



Business Model Canvas

<div>Key Partners</div> <ul style="list-style-type: none">Renewable providersGrid infrastructure providersSatellite providersCloud hosting serviceData providers	<div>Key Activities</div> <ul style="list-style-type: none">Suggest optimal position for renewablesShow impact of renewable installationAssign partners to install renewables	<div>Value Propositions</div> <ul style="list-style-type: none">Accelerate distribution of renewables through faster site detection and optimal assessmentEnable affordable, green electricityReduce energy related GHG emissionsHelping to achieve climate targets	<div>Customer Relationships</div> <ul style="list-style-type: none">Automated services for land assessmentLong-term relationship for maintenance via partnersPersonal assistance for governments	<div>Customer Segments</div> <ul style="list-style-type: none">Farmers<ul style="list-style-type: none">Have unused and agricultural land, want to earn money and reduce emissionsGovernments<ul style="list-style-type: none">Need site assessment tool for planning large renewables projectsNeed to build renewable systems to achieve climate targets
	<div>Key Resources</div> <ul style="list-style-type: none">Satellite imagesFundingElectricity dataWeather dataCurrent electricity costSoftware engineers		<div>Channels</div> <ul style="list-style-type: none">Landing page with easy-to-use assessment toolPromotion via partner networkDirect advertisement to target customers	
<div>Cost Structure</div> <div>Variable:</div> <ul style="list-style-type: none">Computation and HostingSalaries <div>Fix:</div> <ul style="list-style-type: none">R&DAdministration			<div>Revenue Streams</div> <ul style="list-style-type: none">SaaS subscription fee for government usageAffiliate system for infrastructure companies for farmer segment	

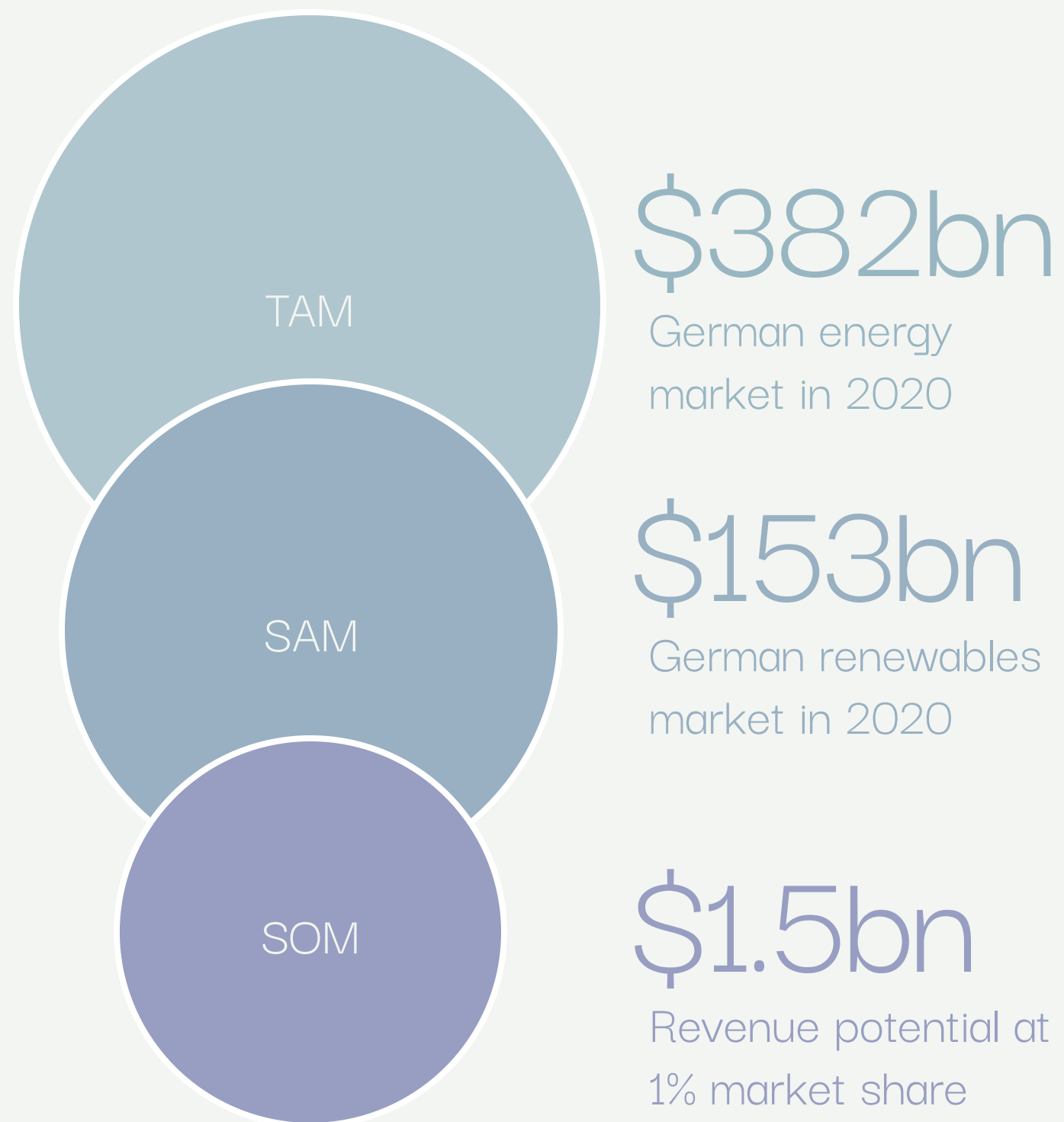
Backup

Players in the renewable ecosystem are our potential partners as they are currently mostly focused on rooftop solar



Backup

We operate in a growing global market - Germany alone represents multi billion dollar business potential

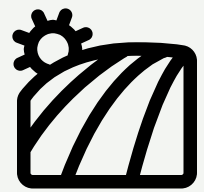


Backup

Agrivoltaic systems optimize the land's potential without damaging ecosystems



Dynamic photovoltaic panels to generate renewable energy



Increase crop yield by protecting plants from frost, hail and sun



Reduce water usage by up to 30%



Backup

In the future, brightly.ai will become a great partner for NGOs bringing electricity to rural areas

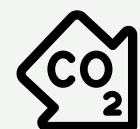
NGOs



Bringing electricity to rural areas



Empower developing countries



Limiting GHG emissions

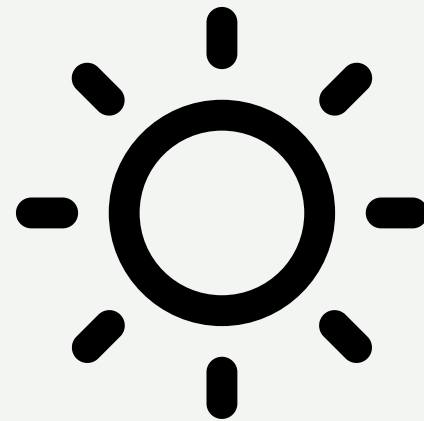
768 million people worldwide
without access to electricity

Backup

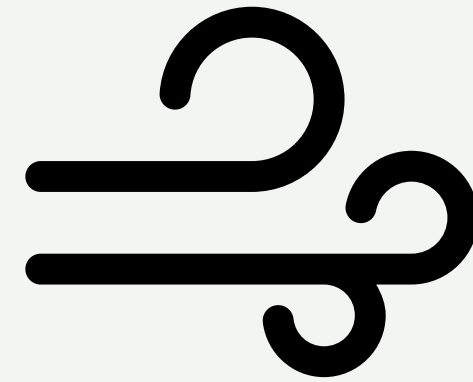
Technical Details: Datasets



Rain Data by City



World Cities Ranked by Annual Sunshine Hours



Wind Data by City



GLOBAL WIND ATLAS