



Qatar Open Innovation 2022 | Webinar

Welcome! We will start in a few minutes...

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Agenda

- Webinar Introduction
- Introduction to QRDI Program
- Hassad Food Open Innovation Challenges
- Kahramaa Open Innovation Challenge
- Mechanics of Submission
- Q&A Session
- End of Session



Haya A. Al-Ghanim

RDI Program Director at
QRDI Council



Jose Iralde

Director of Corporate Strategy
& PMO



Rashid al-Rahimi

Head of Creativity, Innovation &
Scientific Research Incubator



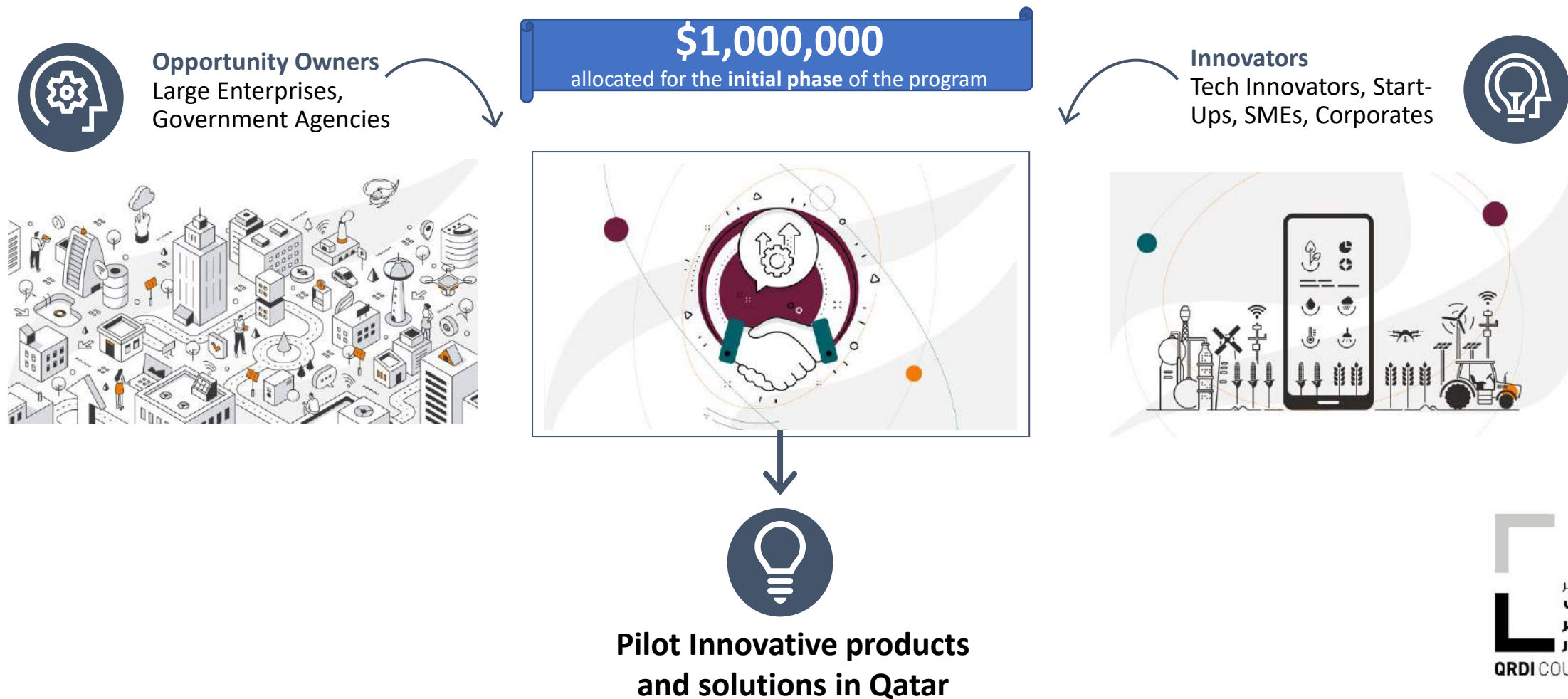
Jordi Rafols

Chief Executive Officer
& Cofounder



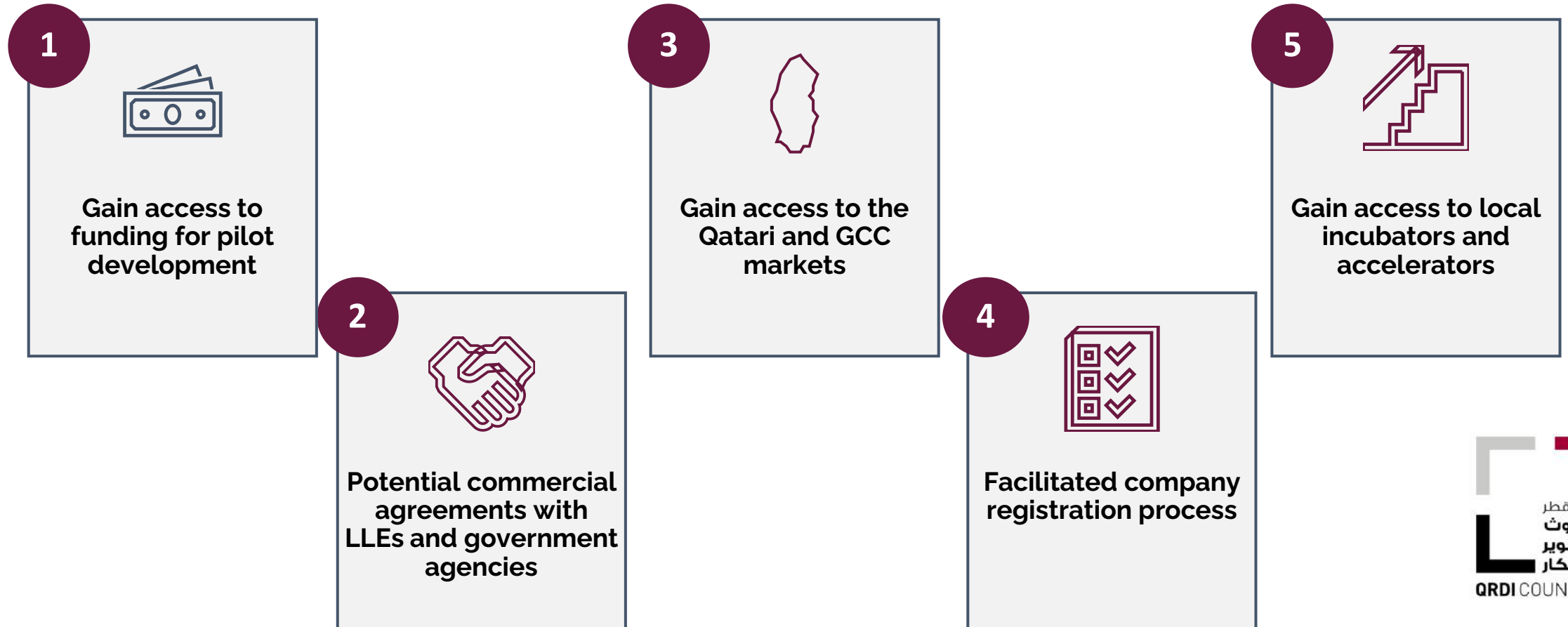


Qatar Open Innovation (QOI) connects opportunity owners with local and global innovators to develop innovative technologies and solutions



QOI presents a unique opportunity for local and global innovators to develop and commercialize their solutions

Program Benefits for Innovators





Jose Iralde

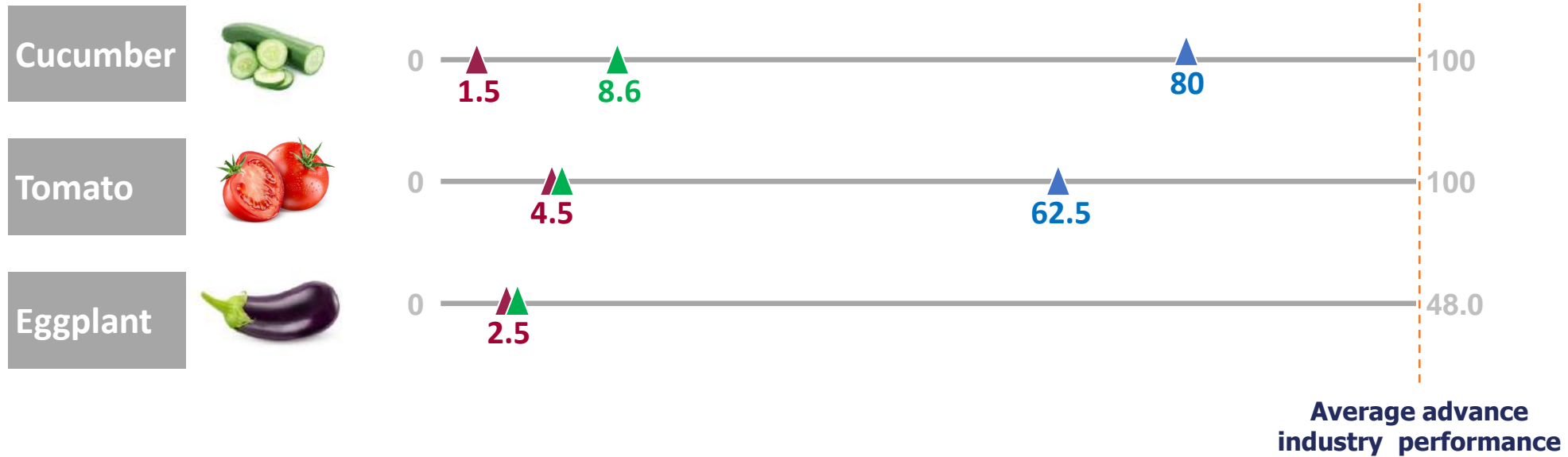
Director of Corporate Strategy
& PMO



Hassad Food Challenge #1 | Seeking Sustainable, Cost-Effective Solutions to Reduce The Humidity Of Cooling Air Inside Greenhouses In Qatar

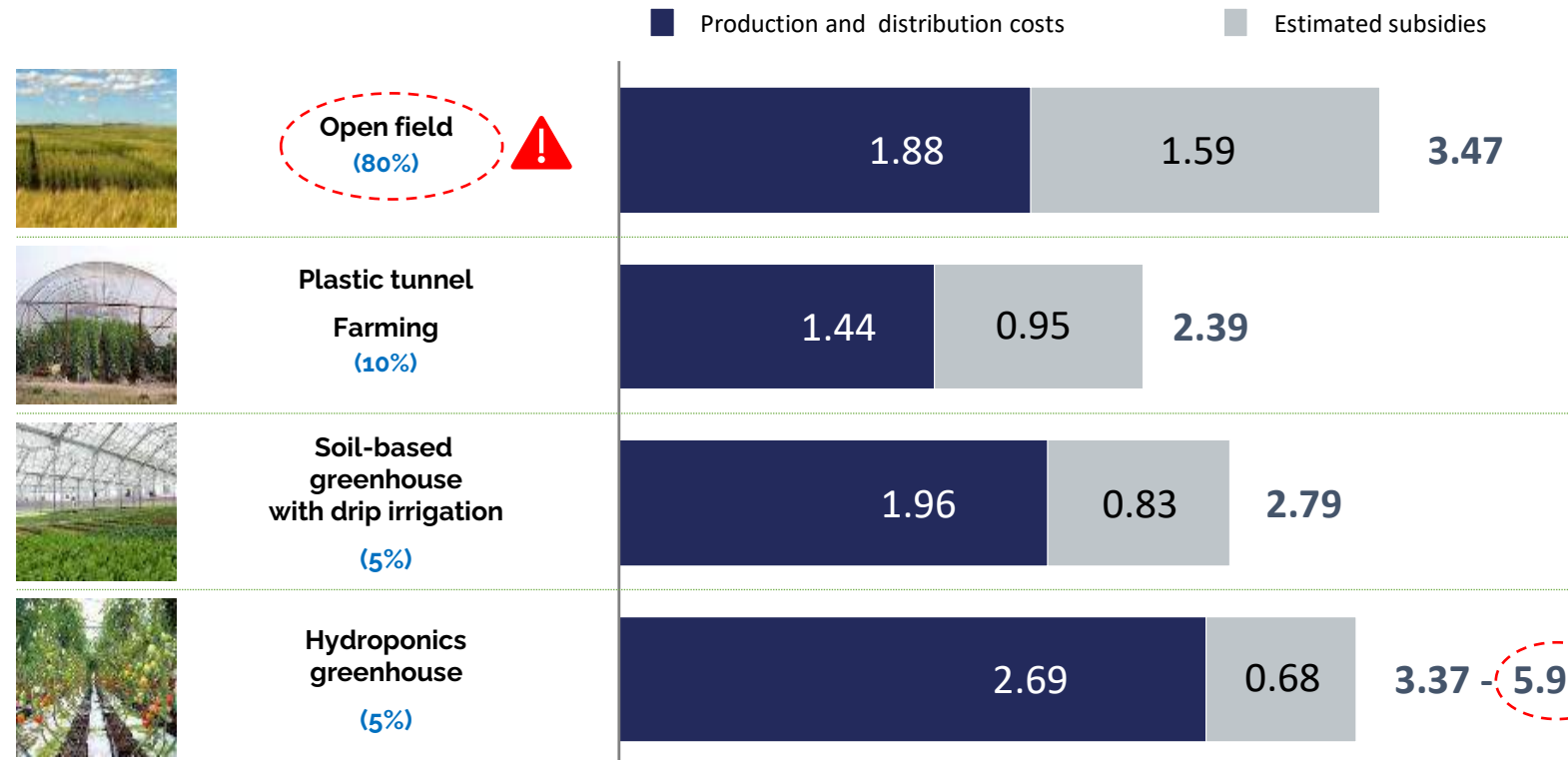
▲ Regional benchmark (Saudi, UAE, Oman)
 ▲ Qatar average performance
 ▲ Qatar Hassad Trial (R&D)

Productivity – Kg/sqm



Hassad Food Challenge #1 | Seeking Sustainable, Cost-Effective Solutions to Reduce The Humidity Of Cooling Air Inside Greenhouses In Qatar

Total costs (production & distribution) for tomato production methods in Qatar
QAR per kg

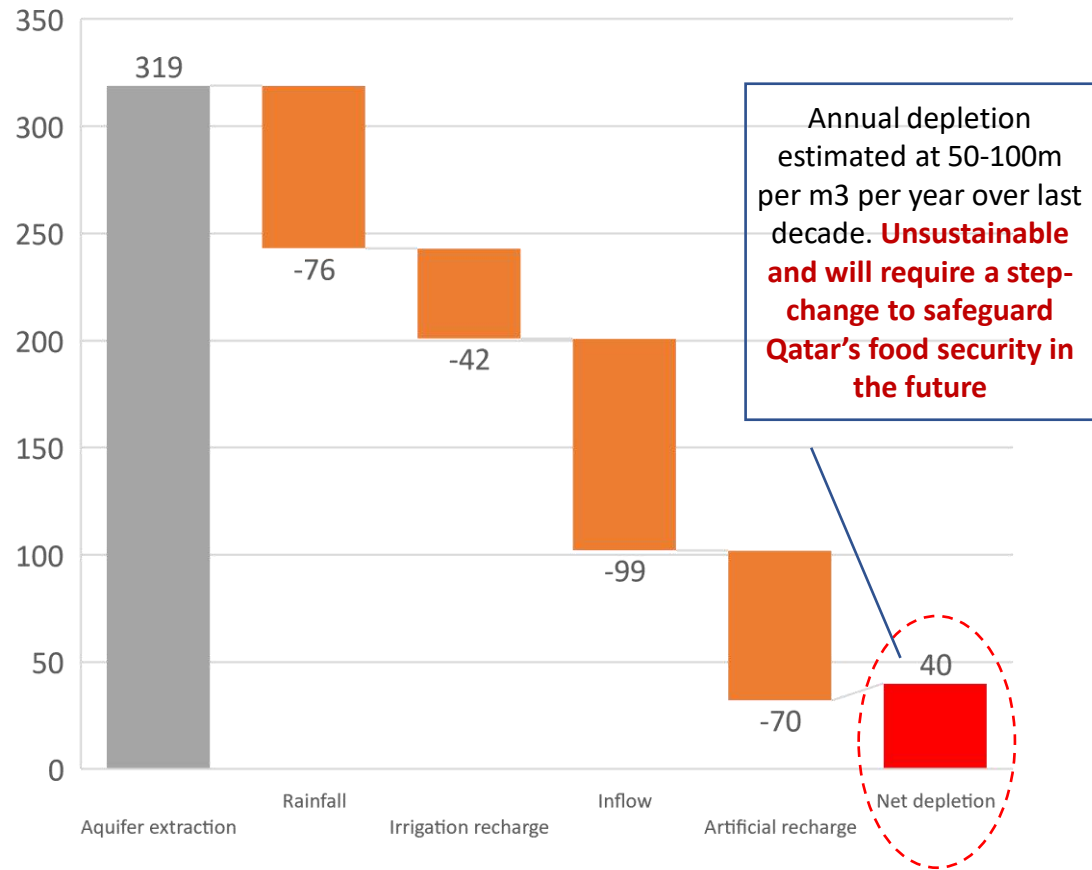


Estimated cost for R&D trial conducted in Hassad farm estimated in 5.95QAR/kg

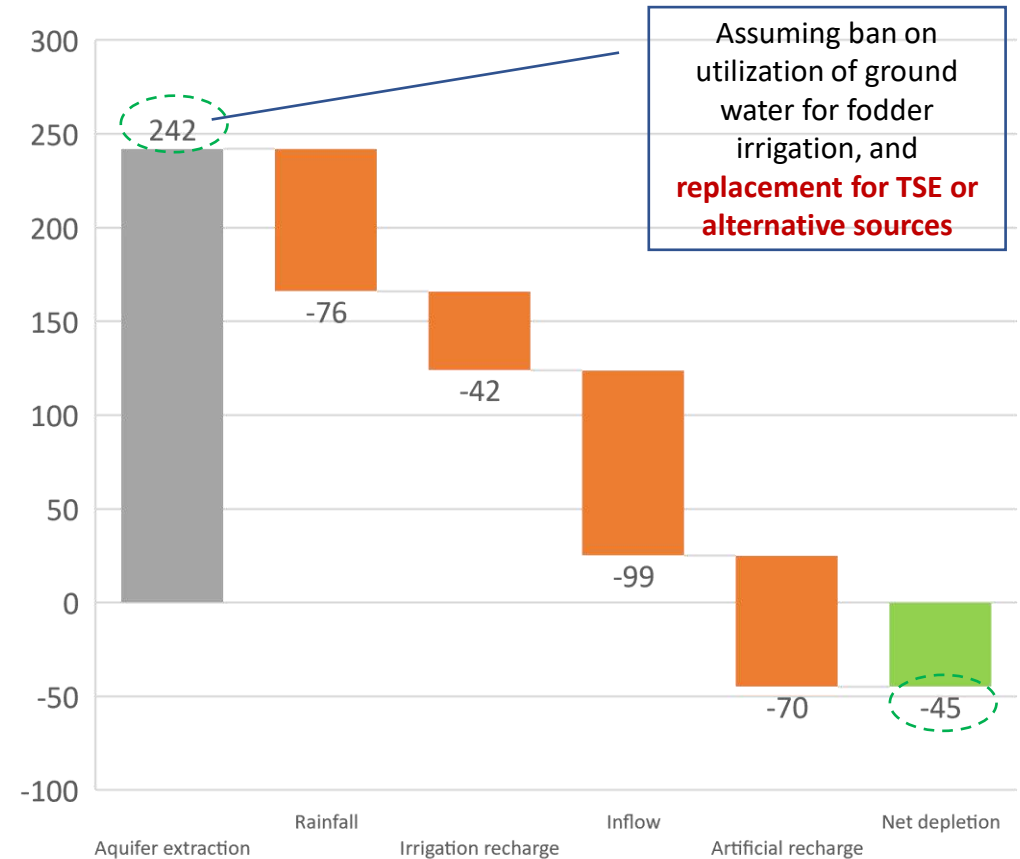
KPI	Results
Yield	62.5 kg/m ²
Total Production	44,570 kg
Water consumption per kg	26 L/kg
Electricity consumption per m ²	1100 KWh/m ² /year

Hassad Food Challenge #2 | Seeking Innovative Technologies to Harvest Water From Air (Humidity) in Harsh Conditions

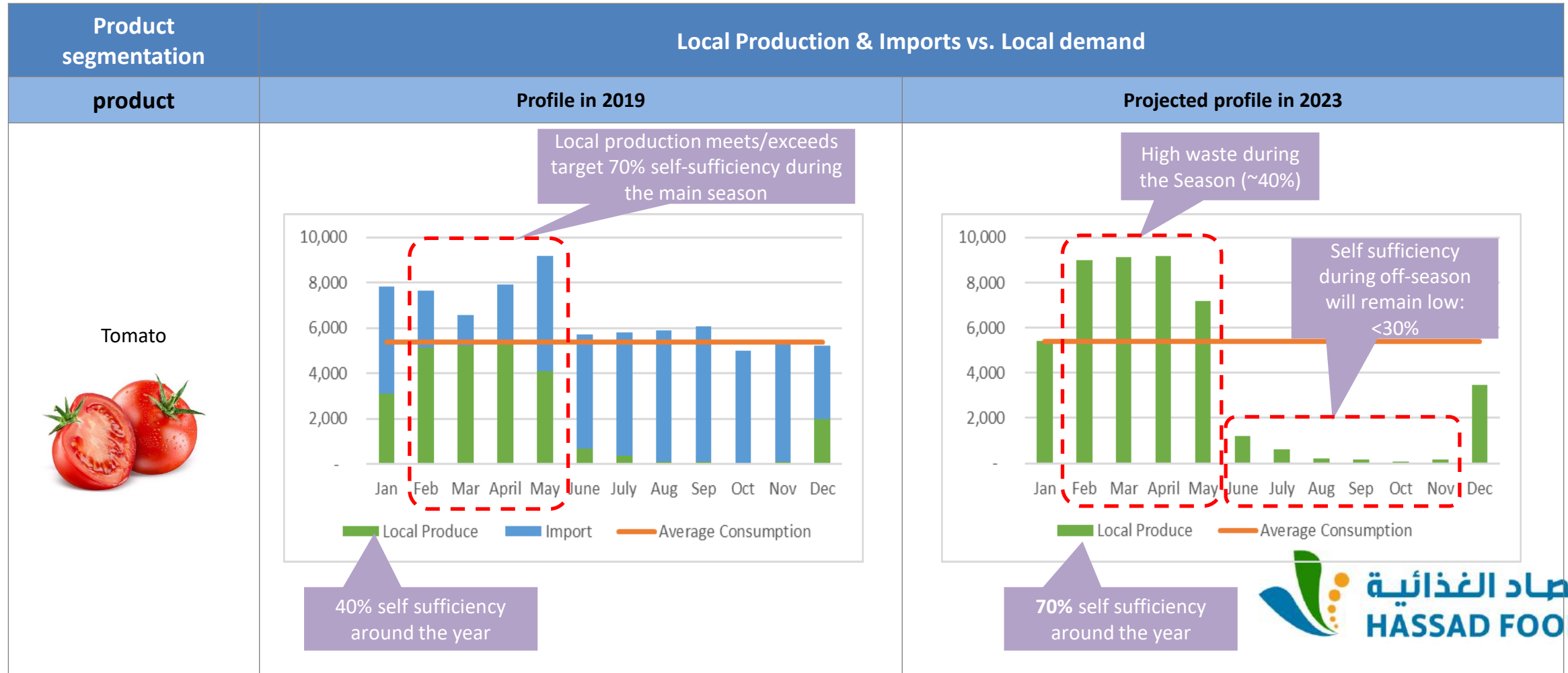
Depletion & Replenishment breakdown Aquifer
(million m3 per year –2016)



Depletion & Replenishment breakdown Aquifer
(million m3 per year – estimated 2023)



Hassad Food Challenge #3 | Seeking Innovative Technologies To Convert Agricultural Waste Into Products Of Value





Rashid Al-Rahimi

Head of Creativity, Innovation &
Scientific Research Incubator



Seeking Innovative Technologies For Energy Storage In Harsh Environments

Description Of Problem:

To utilize energy more efficiently with the goal of preserving local resources and reducing environmental footprint. KM is looking for innovative high-capacity solutions which address advance storage capacities and technologies operating in the climate conditions where humidity and temperatures can be over 90% RH and 50°C respectively (Not all technologies meet these criteria).

Key Success elements that we think should be in the innovative solution:

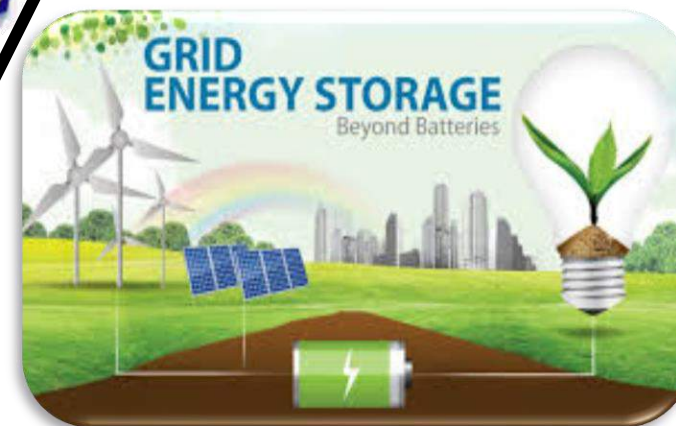
- Storage systems above 10MW up to 250MW operating in 2 hours up to 12 hours, & is compatible with control systems in air temperatures over 50C during 4-5months per year in humidity over 90% & with life span minimum of 5000 cycles capable of retrofitting to existing or new smart solar farms /grid networks, while being environmentally friendly and Cost efficient (TRL 3 – 8 with potential for pilot development within Qatar).

Possible approaches: might include, but are not limited to:

- Battery Systems (Flow, Molten State, Metal Air, Hybrid, hydrogen & Metal-ion batteries)
- Super-conducting Magnetic Energy Storage
- Hydrogen Based Storage Systems
- Fuel Cells
- Grid forming technologies

Approaches/Technologies Not of Interest:

- Not resistant to extreme weather conditions , require major re-design / reconstruction of the local power supplies or solar farms, harm the environment or generate large amounts of CO2 such as CCU



<https://qrdicouncilopeninnovation.innoget.com/>

Register for the Webinar – Qatar Research Development and Innovation Council's Open Innovation Challenge Program – \$1 million funding opportunity

QATAR OPEN INNOVATION

Qatar Research, Development And Innovation Council

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Your Open Innovation Partner in Qatar

Opportunities

Latest Open Innovation Opportunities

Innovation Needs (4)

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MECHANICS AND PROPOSAL SUBMISSION

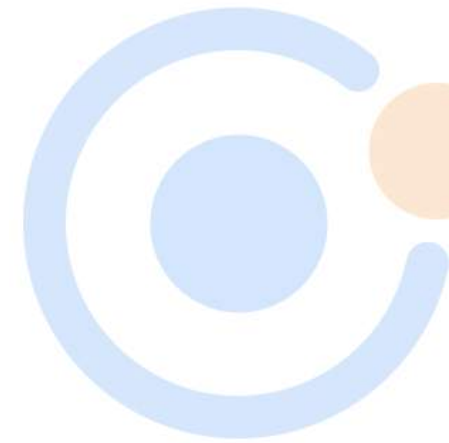
Qatar Research, Development and Innovation Council posted this: 9 followers

Seeking Innovative Technologies To Harvest Water From Air (Humidity) In Harsh Conditions

Hassad Food is inviting proposals from Startups, SMEs, ... Game Changer Technologies and Ideas

Read more Save Share +1 month





OPEN INNOVATION CHALLENGES

Innovation Need

QATAR OPEN INNOVATION

مجلس قطر للبحوث والتطوير والابتكار
QRDI COUNCIL

Seeking Innovative Technologies To Harvest Water From Air (Humidity) In Harsh Conditions

Posted by
Qatar Research, Development and Innovation Council
Government Administration

Write your proposal

Desired Outcome
To support in better manage water resources and develop efficient strategies, Hassad Food has piloted a 1MW battery storage capacity.

Desired Outcome
Hassad Food is inviting proposals from Startups, SMEs, and Corporates to develop innovative technologies which can be used to harvest water from humidity in harsh environments.

Challenge Context
Qatar's National Vision 2030 emphasizes the importance of environmental development as the nation is forced to deal with local environmental issues, such as the impact of diminishing water resources. In line with these ambitions, Hassad Food is aiming to find new, sustainable, and economically viable sources of water in Qatar.

Submission Process

Please make sure you read the Official rules of the challenge before you submit your proposal. Specifically the relatives to:

- Challenge topic and submission criteria
- Technical requirements
- Proposal submission and required information

Preferred Partnership Model

The QRDI Open Innovation Challenge program has up to one million Euros (€1,000,000) to invest in the selected participant proposal to scale-up, jointly develop, acquire or license the proposed solution. QRDI and their partners together with the selected participant will discuss on a one to one basis the funds required to develop the selected project in Qatar

Title Of Your Proposal *

Identify your proposal with a self-explanatory title

Executive Summary *

Executive summary

Technology Development Roadmap *

- Current development status and proposed development in Qatar
- Development roadmap including anticipated phases, duration
- Facilities and requirements to support development
- Any problems you anticipate and how you might address them

Technology Readiness Level *

Select the Technology Readiness Level of your proposal

Intellectual Property Status *

Describe the current Intellectual Property Status of your proposal. Indicate whether there is any kind of IP protection. If yes, could you share any details?

Overview Of Company / Team *

- Company profile, past experience, relevant past projects and customers (if you can share this data)
- Development team, organization, roles and responsibilities
- Team profiles & CVs

Proof Of Concept Data (If Any)

Proof or demonstration of concept, pilot/test trials, and/or simulations

Attachments



Drag and drop files, pictures and other attachments to improve the description of your proposal

PROPOSAL TEMPLATE

ANY QUESTIONS?

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To learn more, visit the QRDI Portal at
<https://connect.qrdi.org.qa/innovation/p>



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“A locally empowered and globally connected Research, Development and Innovation ecosystem that enhances Qatar's resilience and prosperity”

Join us to accelerate the transformation of science and technology into innovative products and solutions with your partners in Qatar”

- Haya A. Al-Ghanim

**RDI Program Director at
QRDI Council**

**For more information
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Visit QRDI's Council Open innovation Challenges Site

<https://qrdi-councilopeninnovation.innoget.com/>

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