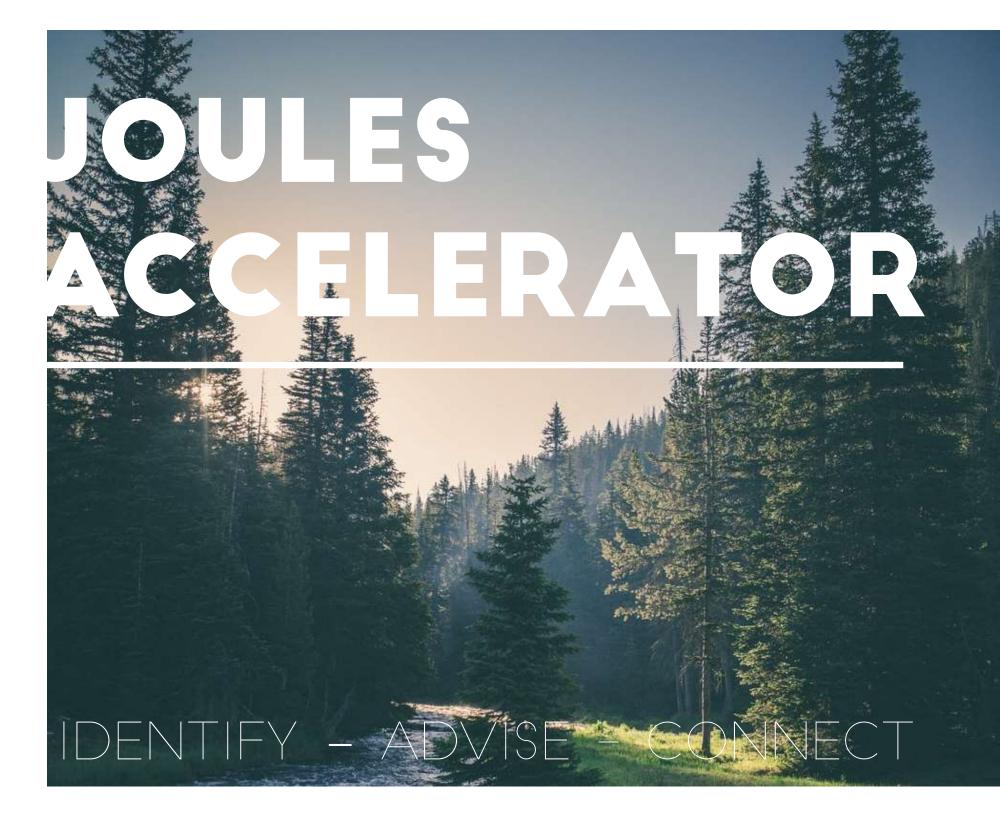
What is a Green Entrepreneur?

Presenter: Bob Irvin



Oct. 27th, 2020

Mission

Prepare the Carolinas for a carbon-free energy future through the commercialization of cleantech innovations.

Joules Accelerator is a 501(c)(3) non-profit collaborating with industry, municipal, and university partners to Identify, Advise, and Connect cleantech startups with the Carolinas.

- 90 Day Program
- 2 Cohorts per Year
- 52 Portfolio Startups

- \$20MM Local Investment
- 160 Advisors
- 100 + Local Jobs

Ecosystem Partners

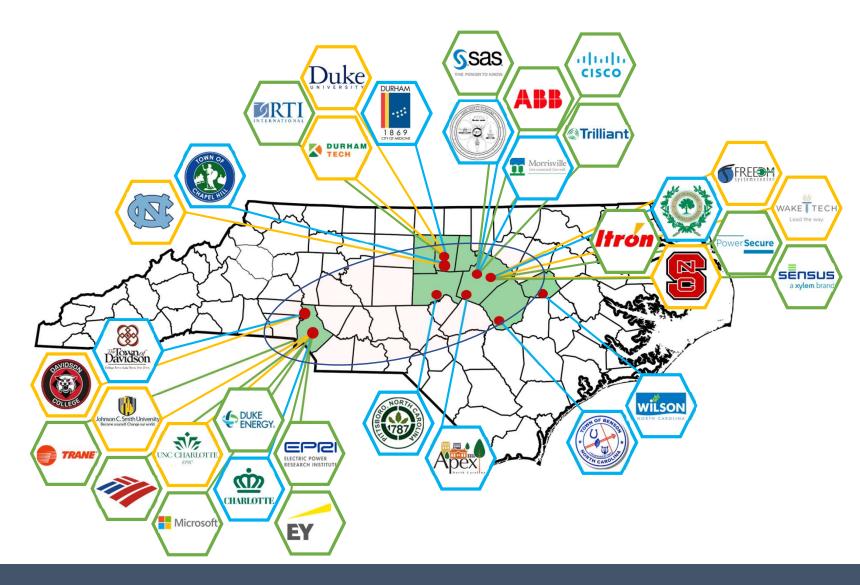
ECONOMIC DEVELOPMENT ADMINISTRATIONS1.5MM FOR REGIONAL CLEANTECH INNOVATION











On August 30th 2018, Joules and the Research Triangle Cleantech Cluster (RTCC) applied for the 2018 Economic Development Administration's (EDA) Regional Innovation Strategies (RIS) i6 Grant. On December 4th, the program was awarded \$750,000 in federal funding over three years for joint programming between Joules Accelerator and RTCC. The funding is matched dollar for dollar by local sponsors, for a total budget of \$1.5MM over three years.

52 Portfolio Startups







Australia

FOOD, WATER, SOCIAL JUSTICE

- o Goodr Atlanta, GA
- o Local Roots Los Angeles, CA
- o Varuna IoT Houston, TX
- o Infinite Cooling Cambridge, MA o
- o State of Place Natick, MA
- o Good Solar Charlotte, NC
- o Carbon Insights Durham, NC
- o Normative Stockholm, SWE

STORAGE

- o Ardent Edge Charlotte, NC
- o NETEnergy Chicago, IL
- o ZapGo Charlotte, NC
- o Go Electric Indianapolis, IN

ELECTRIC VEHICLES

- o AMPLY San Francisco, CA
- o Chanje Los Angeles, CA
- o Ride Circuit Miami, FL
- EverCharge San Francisco, CA O
- Flux Hybrids Raleigh, NC
- o Weave Grid

BUILDING EFFICIENCY

- o Building Clarity Durham, NC
- o PlottWatt Raleigh, NC
- o Agentis Energy Chicago, IL
- o Harvest Thermal SF, CA
- o Hearth Labs San Francisco, CA

IOT & GRID MANAGEMENT

- o PowerLinesPro Sydney, AUS
- Switched Source Chicago, IL
- o Athena Power Washington D.C
- o IND Technologies Melbourne, AUS
- o Aurtra Brisbane, AUS
- o Breezi Raleigh, NC
- o Arch Systems Palo Alto, CA
- o GridX Munich, GER
- o Line Vision Sommerville, MA
- p Flood Mapp Fortitude Valley, AUS

ARTIFICIAL INTELLIGENCE

SparkCognition – Austin, TX

ROBOTICS & ANALYTICS

- o RoadBotics Pittsburgh, PA
- o Xtelligent Los Angeles, CA
- o Airspace Systems San Leandro, CA
- o TheoremGeo Charlotte, NC

COOLING & DECARBONIZATION

- o Dynamhex Kansas City, MO
- o EnKoat Phoenix, AZ
- o BlueBox Dallas, TX

ADVANCED MATERIALS

- o Mosaic Materials Berkeley, CA
- o Flite Tech Montreal, CAN

WEARABLES

- o Proxxi Vancouver, CAN
- o Tacit San Francisco, CA
- o CN2 Atlanta, GA
- o ITD Charlotte, NC

RENEWABLES

- Eavor Calgary, CAN
- o Alion Energy San Francisco, CA
- Yotta Energy Austin, TX

POWER CONTROL

- o Atom Power Charlotte, NC
- 3DFS Pittsboro, NC

Market Trends 2020

COVID 19



Strong VC participation amid accelerated digitized workforce

New Funds



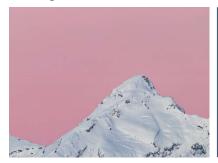
Expansion of climate focused funds: Prime, BlackRock, Amazon, Microsoft

More Acceleration



Greater number of cleantech accelerator programs: EPRI, GTL Texas, 3D

Corporate Climate Action



Direct participation in climate focused startup action: Stripe, Microsoft, utilities

Workforce Digitization



Accelerated timeline for remote work software development and adoption

\$2T



House Dems put forward a detailed \$2T climate investment plan

Cohort Screening Process

SEEKING STARTUPS WITH THE FOLLOWING

- Post seed and pre Series-A funding
- A strong founding team
- Ability to demonstrate traction
- A scalable and applicable product or service

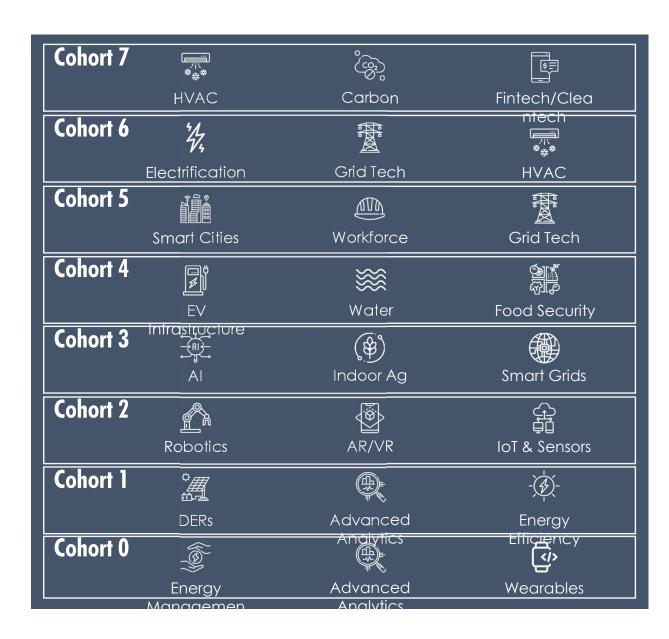
STARTUPS RECEIVE

- Access to the Joules network
- Low friction engagement fast, free, easy
- Rapid "yes" or "no" for piloting

APPLICATION PROCESS

- Go to www.joulesaccelerator.com/apply
- Complete the one page executive summary
- Email it to apply@joulesaccelerator.com

Past Technology Areas of Focus



Cohort 7 Startup Search

200+

STARTUP PORTFOLIOS VIEWED OF FUNDS, ORGANIZATIONS, AND NETWORKS

2000+

STARTUPS VIEWED

50

INVITED TO INTERVIEW

Startup Characteristics

- Average Age:2 Years
- Funds Raised:<\$1M
- CountriesRepresented: 3





HARVEST THERMAL

SAN FRANCISCO, CA

harvest Reduce emissions by 90% and thermal bills by 40% for heating and cooling with the Harvest Pod.



Co-Founder & CEO



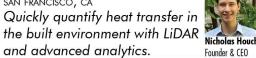
FLOOD MAPP

FORTITUDE VALLEY, AUSTRALIA Immediately generate asset specific maps in response to rapid flooding.



HEARTH LABS

SAN FRANCISCO, CA





FLITE TECH

MONTREAL, CANADA Modity surfaces with the surface model of the surface with the surface wit Modify surfaces with laser tech-

and ice without coatings



Founder & CFO

YOTTA ENERGY

Provide scalable, affordable, OTA and decentralized solar+stor-



NORMATIVE.IO

STOCKHOLM, SWE Simplify corporate sustainability with transparent ESG impact accounting on all purchases



LINE VISION

SOMMERVILLE, MA Increase the capacity of trans-LINEVISION mission lines with in-the-moment situational awareness.



CARBON INSIGHTS

DURHAM, NC

Translate spending behavior into a carbon footprint score - and offset with partners.



Guest Host



GRETCHEN O'HARA

VP, US AI & Sustainability Strategy & Partnership

Microsoft

As VP, Al Country Strategy & Sustainability Partnership at Microsoft, Gretchen is building the path for Microsoft's US acceleration of its Artificial Intelligence, cloud and sustainability initiative to become carbon negative by 2030. Al and Sustainability will change and shape how we live, it is through strategic partnerships, innovation, and ecosystem activation that Microsoft will achieve these ambitious goals.

Kickoff: Protrampring: Oct, Nov, Praduation:

anlian

Success



COMMUNITY ENGAGEMENT

EDUCATE REGION ON THE DECARBONIZED ECONOMY

BUSINESS DEVELOPMENT

PILOTS AND INVESTMENT DOLLARS FOR STARTUPS

ECONOMIC DEVELOPMENT

NEW JOBS IN AN EXPANDING AND DISRUPTIVE SPACE

Startup Case Study - WeaveGrid

When Joules initially engaged with WeaveGrid, the team consisted of just the two cofounders and the rough outline of a product. Over the last 18 months, WeaveGrid has raised \$2MM in seed funding, hired an additional 10 FTEs, grown to become a standard solution across domestic markets, and is engaged in a seven-state opportunity with Duke Energy.

"The feeling remains just as strong as after our first Joules session back in March - this has been a really excellent program given the level of access we've been able to have within Duke. We can't thank you enough for that. The fact that we could get three really strong meetings during my 24-hour trip to NC was very powerful. I continue to believe that programs like Joules should have the goal of helping startups reduce their sales cycle to companies like Duke, and I think you are doing a great job to help there."





APOORV BHARGAVA

FOUDNER & CEO

WEAVEGRID San Francisco, CA

Founded: 2018

Number of Employees: 12

Value Proposition: Connects utilities to vehicles through telematics data and improves overall charge scheduling efforts.

Thank you.