

A non-profit innovation platform

#### Source, Commercialize, and Integrate

Emerging Tech With Energy Partners.

At Rose Rock Bridge, we support new tech that propels energy corporations to meet their innovation and sustainability goals.

#### Incubator Model | Advanced Commercialization Support for Academic Innovators

**SELECT** 

High potential academic research

- TRL 3 or more (proven bench scale feasibility)
- Federally funded (DOE, GTO, ARPA-E, SBIR / STTR)
- Team comprises of PI & post-doc (s) / graduate(s)

**TRANSLATE** 

6-week accelerator program

- 1-on-1 clinics with Energy partners in Tulsa
- Commercialization workshops with VentureWell
- Support for company incorporation

3 INCUBATE

1-year zero-equity remote program

- \$100k non-dilutive funding
- Grant application support and legal & IP counsel
- Industry informed workflows to commercialize tech

**DEMONSTRATE** 

Pilot and nondilutive financing

- Pilot tech with relevant Energy partner
- Tulsa presence for partner access & scale-up support
- CXO / talent recruitment support

LAUNCH

Tailored strategy to commercialize

- **Equity funding** from partner VC
- Support for creating & scaling university spinouts
- Marketing for tech licensing partnerships

Important dates for our upcoming cohort -

- April 15, 2024 application deadline
- June 5, 2024 cohort launch date
- June 24, 2024 6 week accelerator begins
- August 15, 2024 Grant award selection & start of 1-yr incubation period

**Startups We Support** 

Fluid Efficiency







#### **Our Network**

Oil & Gas

Williams

devon





Capital



















MADE



GEORGE KAISER

Govt. Community



**Atento** Capital

Gable Gotwals

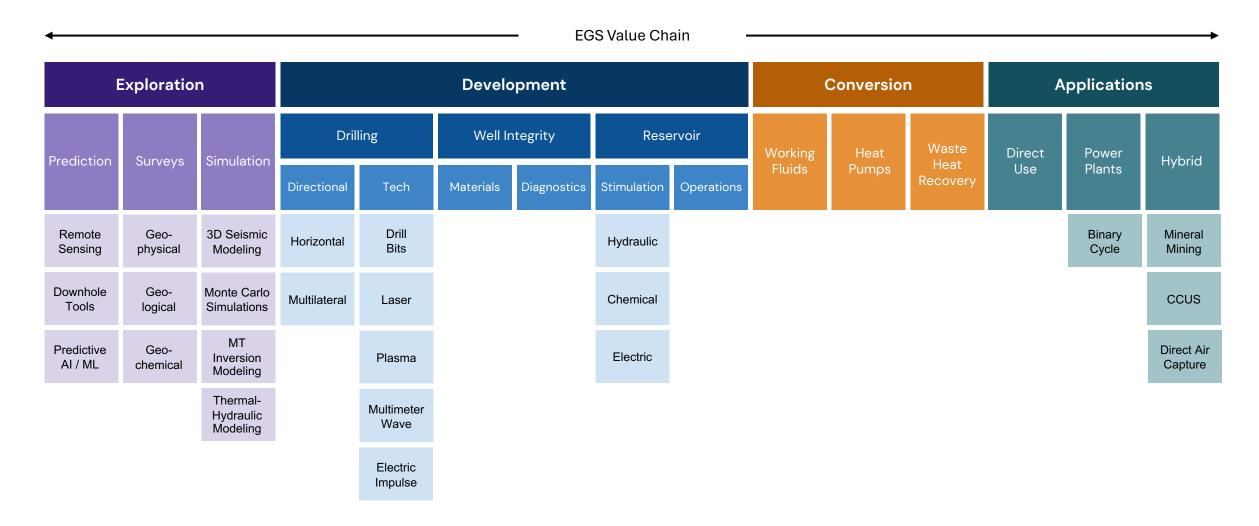
Grantwiser



Startup Support

# **ENHANCED GEOTHERMAL SYSTEMS (EGS)**

#### **Innovation Focus Area**













### **CRITICAL MINERALS**

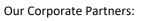
#### **Innovation Focus Area**

Critical Minerals Value Chain

**Midstream Upstream** Recycling / End-of-Life Mgmt. Downstream End-Product E-waste Recycling & Exploration Refining Fabrication Extraction **Processing** Collection Refurbishment Manufacturing Underground **Advanced Mechanical** Metal Remote Solvent Electronics Mining Separation Alloying Sensing Extraction Battery material / **High Pressure** Electro-Powder Geophysical & Open Pit cell pack **Geochemical Surveys** Mining **Grinding Rolls** Metallurgy refining Renewables (solar In Situ Hydro-Resource lon Sintering panels / wind turbines) metallurgy Exchange Estimation Recovery Mine Planning & Brine Pyro-Aerospace & Crystallization Defense Design metallurgy Extraction

**Note**: Critical minerals in focus are Lithium, Silicon, Nickel, Cobalt, Zinc, Aluminum, Manganese, and Rare Earth (e.g., La, Ce, Tb, Yb, Sc)







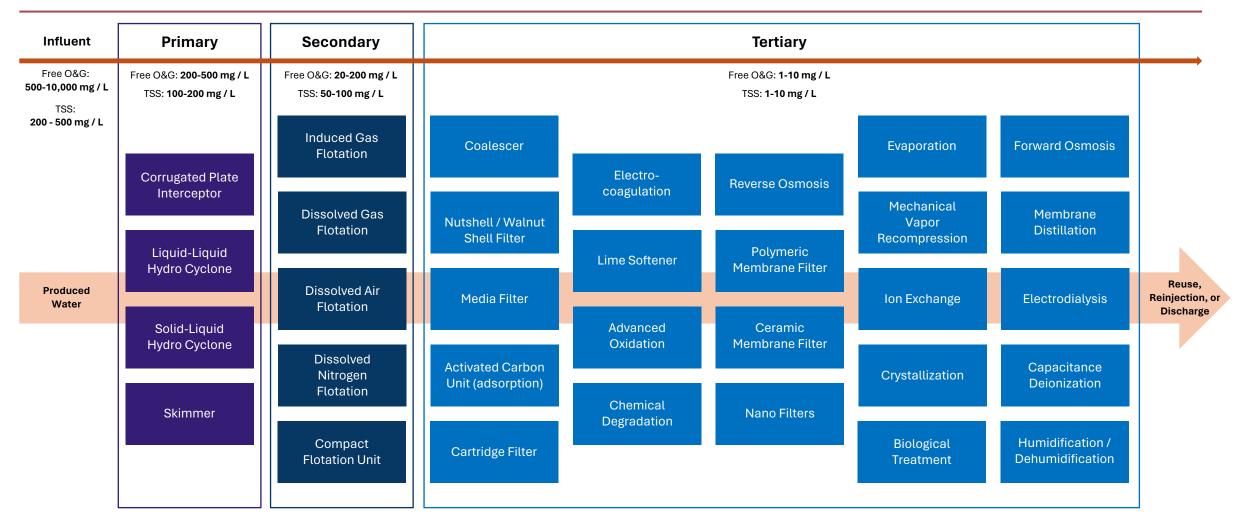






## PRODUCED WATER TREATMENT

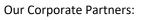
#### **Innovation Focus Area**



Notes: O&G - Oil & Grease; TSS - Total Suspended Solids

Source: Adopted from Larson, 2018; WEF, 2018; Jimenez, 2018













## **METHANE MANAGEMENT**

### **Innovation Focus Area**

| Identification & Measurement     |   |                          |  |  |
|----------------------------------|---|--------------------------|--|--|
| Leak<br>Detection                | Emissions<br>Quantification                           | Continuous<br>Monitoring |  |  |
| Infrared<br>Imaging              | Direct (e.g., high flow samplers)                     | Satellite<br>Monitoring  |  |  |
| LiDAR                            | Indirect (e.g.,<br>mass balance,<br>emission factors) | Aerial<br>Surveys        |  |  |
| Laser Absorption<br>Spectroscopy |   | Ground-Based<br>Sensing  |  |  |
| Nano Photonic<br>Sensors         |   |                          |  |  |
| Electrochemical<br>Sensing       |   |                          |  |  |

| Emission Reduction Tech                             |                                    |  |                          |  |
|---|------------------------------------|--|--------------------------|--|
| Advanced<br>Materials                               | Preventive<br>Maintenance          | Integration with<br>Renewables                     | Capture &<br>Utilization |  |
| Alloys & Plastics<br>(less permeable<br>to methane) | Low-bleed<br>Pneumatic<br>Devices  | Solar / Wind<br>replacing gas driven<br>pneumatics | Vapor Recovery<br>Units  |  |
| Seals &<br>Gaskets                                  | Dry<br>Seals                       | Equipment<br>Electrification                       | Gas-to-Liquid<br>Systems |  |
|   | Zero-Emission<br>Valves & Fittings |  |                          |  |
|   |                                    |  |                          |  |
|   |                                    |  |                          |  |

**Digitization & Automation** 











