



Deep tech: is it for you?

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SHIFT Festival 2020

Who's talking

Andrey Shigaev

- PhD Physics
Nonlinear chaotic dynamics of distributed systems
- MPhil (Cantab)
Technology commercialization
- Technology transfer
- Venture capital
- Infrastructure development
- Start-ups
 - Digital & Arts
 - Deep tech



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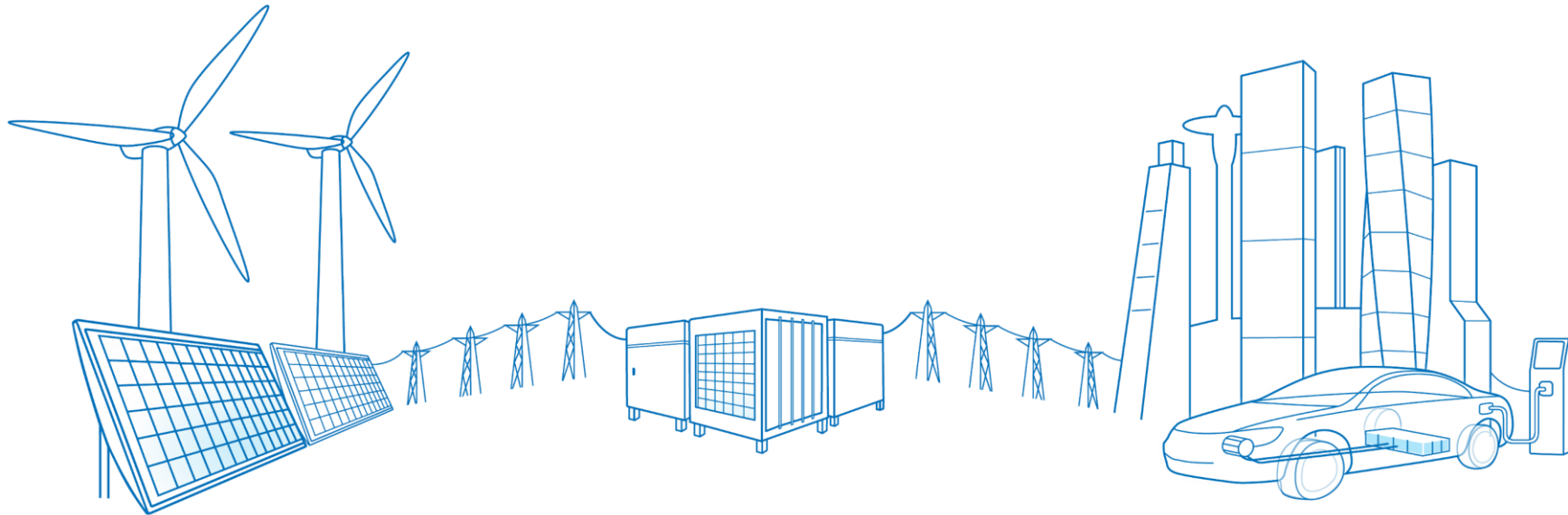
SISTEMA



GEYSER
BATTERIES



Enabling electrification



- + Energy oversupply and negative prices are getting common
- + > 18% of new cars in EU are electrified
- ! No efficient solutions for high-power energy storage: to stabilize renewable grids, to build heavy-duty powertrains
- ! Li-ion is not safe, not sustainable, supercapacitors – inefficient
- ? Why little progress in electrification of heavy machinery
- ? Why still burning fossil fuels to generate electricity

Geyser Batteries

New class of ultra-durable batteries

- + Proprietary “non-lithium” electrochemistry
- + Hybridizing two different physical principles of energy storage
- + Based mostly on renewables materials
- + Producing very low carbon footprint

to enable most demanding electrification cases

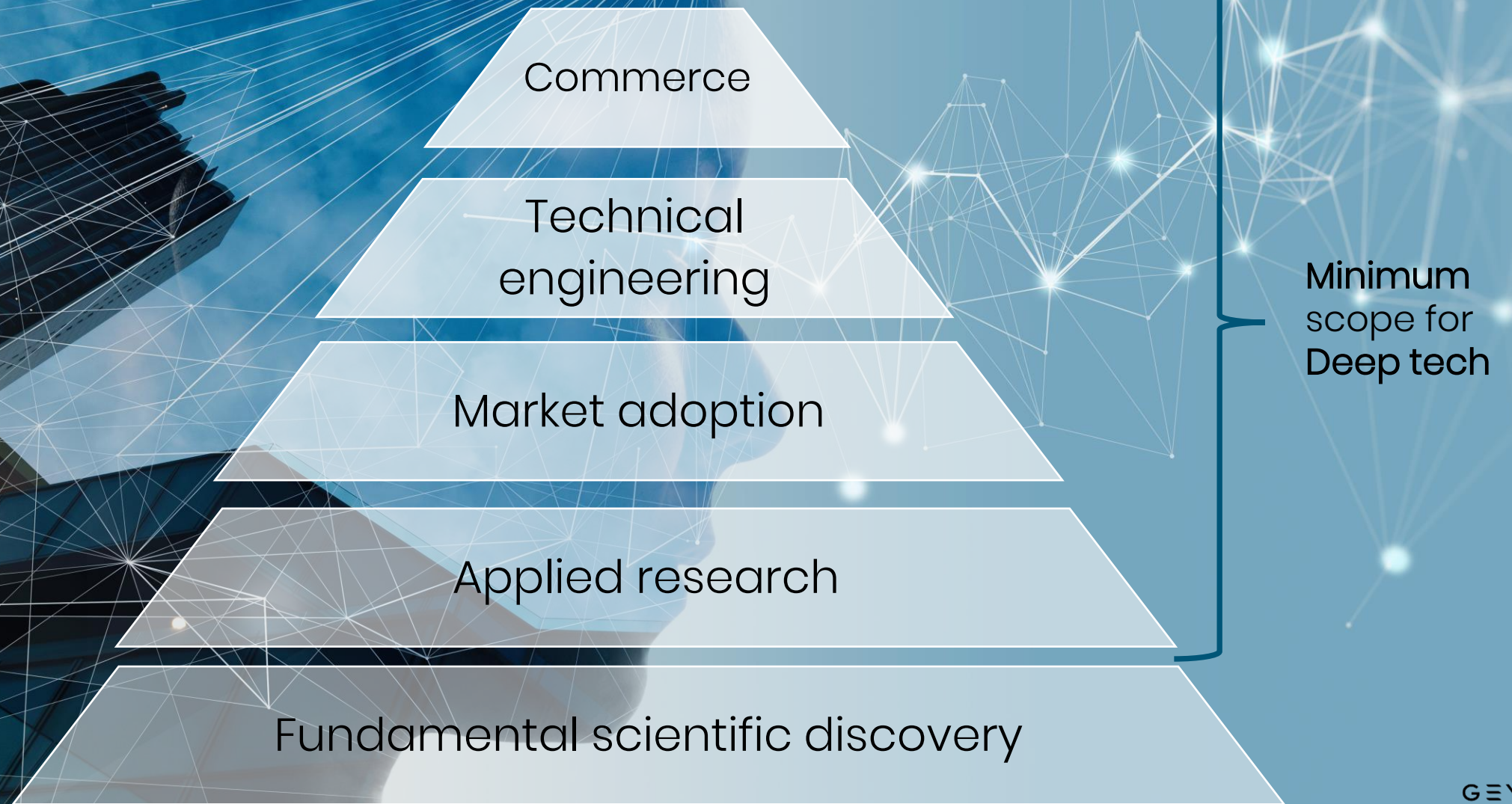
- Industrial heavy machinery
- Stabilization of renewables-based power grid
- Fast-charging public transport



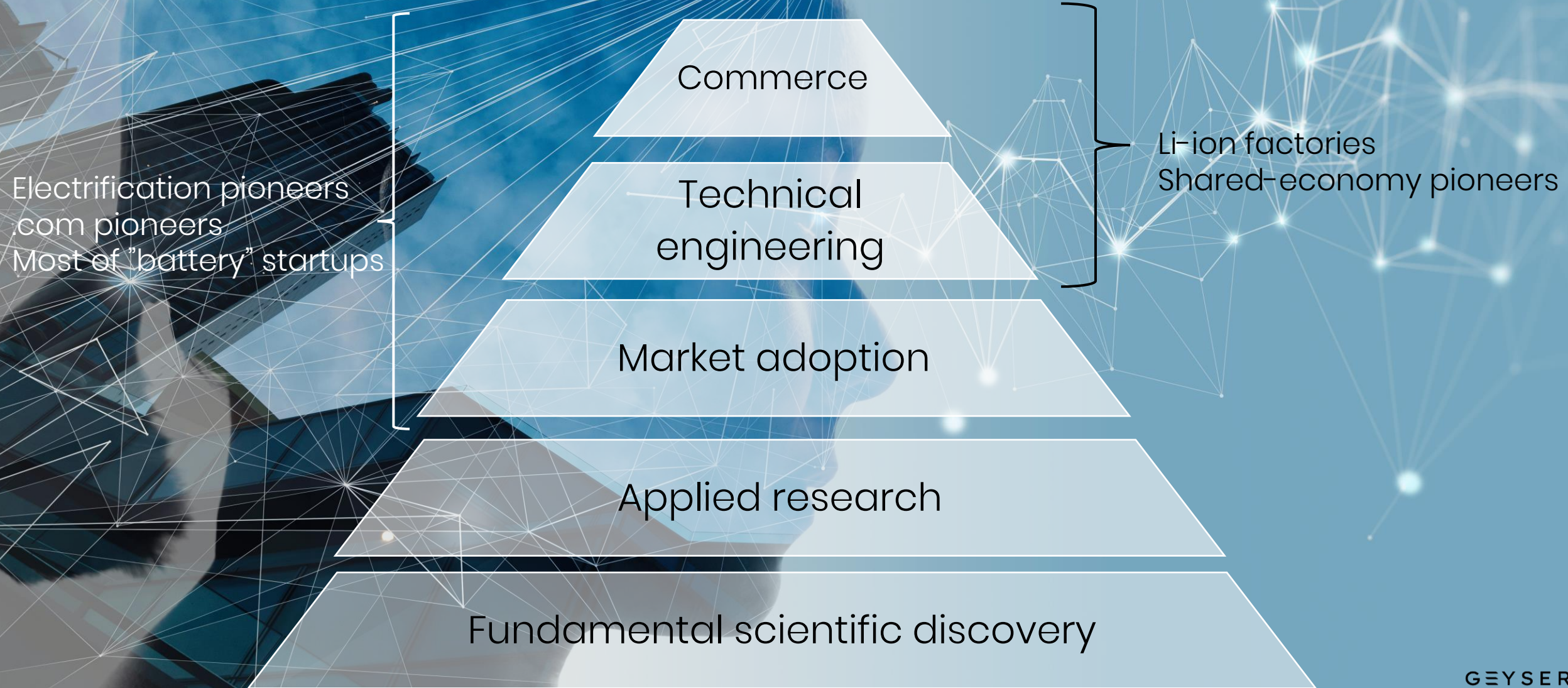
48V battery for mild hybrids, 8 litres, 11 kg



Defining the Deep tech business



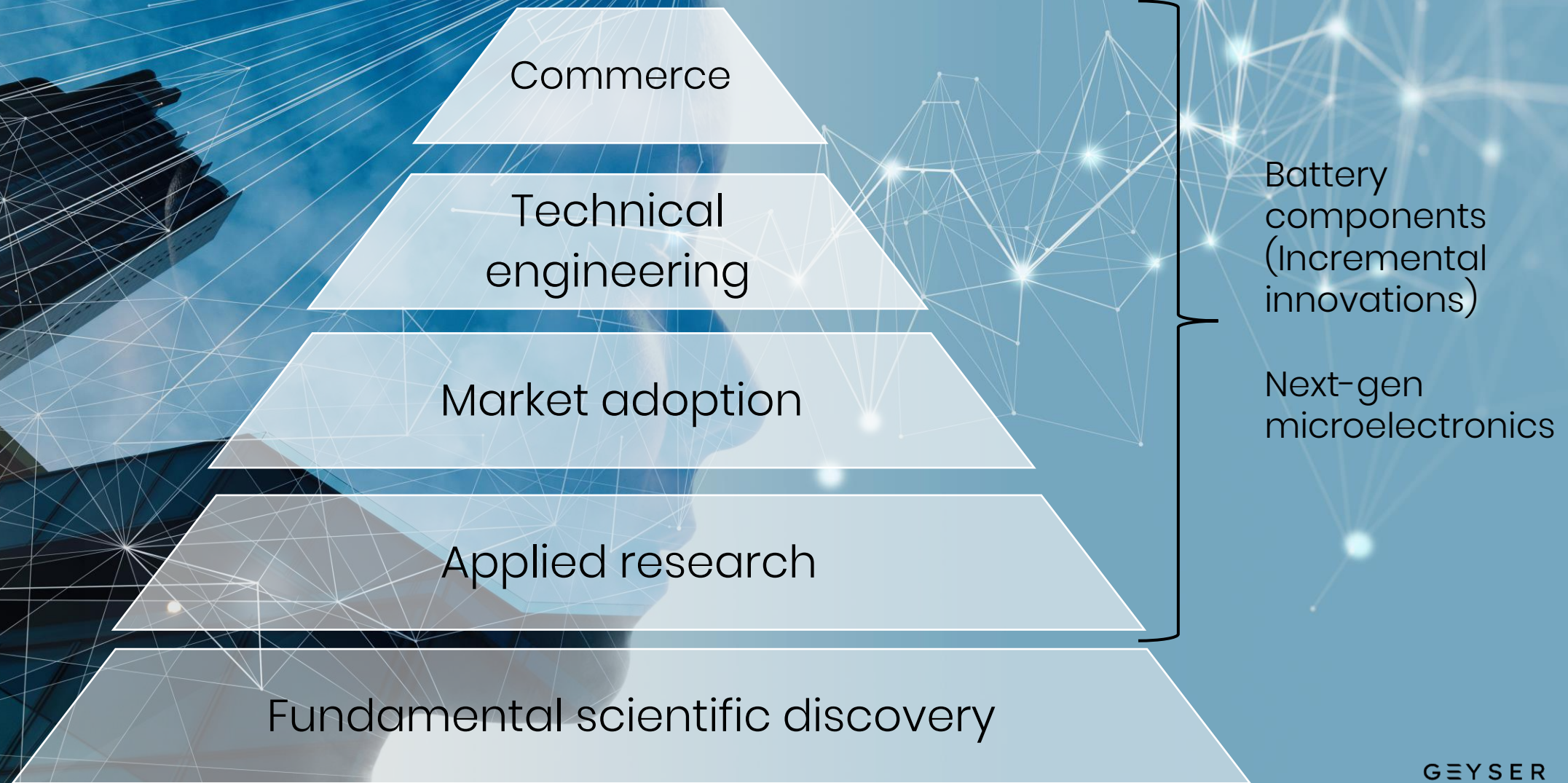
Defining the Deep tech business



Electrification pioneers
com pioneers
Most of "battery" startups

Li-ion factories
Shared-economy pioneers

Defining the Deep tech business



Why does deep tech offer

- **Money**

Potential for the Blue ocean

- **Security**

High barriers to entry

- **Impact**

Advancement of the humanity

Why deep tech?

There is no reason to venture into deep tech.
The deep tech itself is the reason.