DWE•ƎN

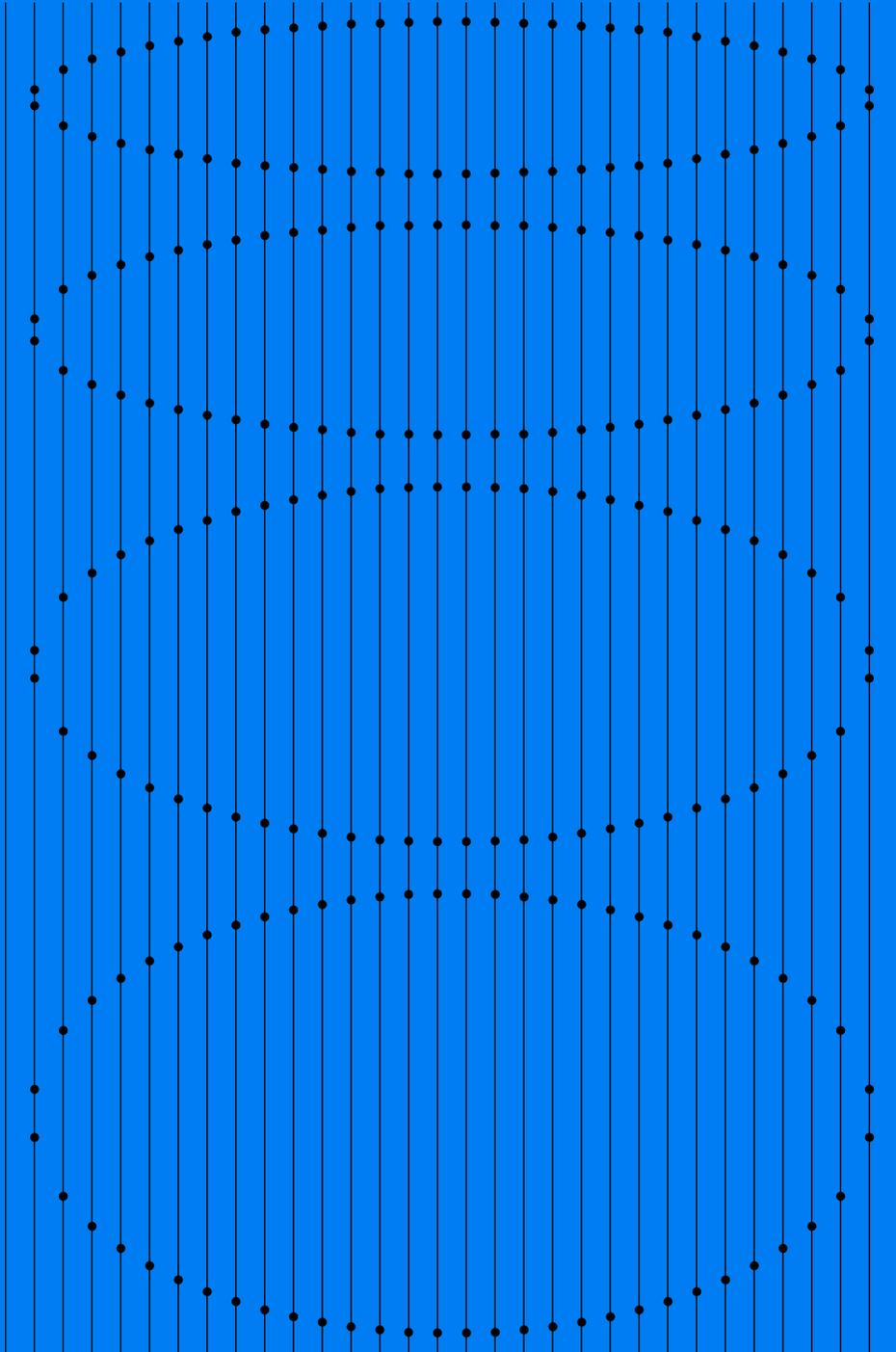## The Leap to the Next Generation of Energy and Technology Efficiency

Imagine achieving up to 30% energy savings.

Without requiring any additional technological equipment.

Unseen.

Until Dween.

Dween is a chief engineer who doesn't manage people.

It orchestrates and optimizes your technological processes.

Dween is a cutting-edge digital twin solution designed to enhance energy and technology efficiency of industrial companies. By creating an identical, cloud-based replica of your technological process, Dween simulates real-life conditions, identifies areas for improvement, and optimizes control meeting the actual energy demand.

How Dween works? It's Easy.

❶   **We add an advanced layer of digital power to your existing hardware.**

❷   **Dween manages your hardware in real time.**

❸   **Intelligent digital twin empowers autonomous technological process.**

In just 1 minute, Dween assesses and computes all of your equipment parameters 4 times.

Dween provides fully automated control of the complex industrial system 24/7. Avoiding any and all mistakes human being can make due to fatique, lack of focus or competence.

The magic of Dween lies in its internal complexity paired with external simplicity. At its core, Dween harnesses immense computational power, enabling it to calculate and analyze an unparallelled quantity of parameters — far beyond the capabilities of conventional industrial control systems.

- **Autonomous Operation**

  Dween runs independently, managing processes without human supervision. It efficiently oversees all connected technological equipment, adapting to real-time energy needs.

- **Hardware Vendor Independent**

  Dween will integrate equipment from different manufacturers into a unified, centrally managed system.

- **No Additional Equipment Required**

  Dween works seamlessly with your existing technological equipment, network, and IT infrastructure— no additional hardware equipment is necessary.

- **Multi-Layered Insights**

  Dween is flexible, providing insights ranging from high-level metrics as efficiency and energy consumption to specific operational KPIs.

Results?
Return on investment expected in less than 1 year.

Reduced Energy Consumption

Dween continuously controls the system, minimizing energy consumption.

Extended Lifespan of Equipment

Advanced process control prolongs lifetime of equipment.

Improved Efficiency and Productivity

Intelligent digital twin stabilizes production, ensuring consistent quality and increased throughput.

Significantly Reduced CO_2 Emissions

Dween aligns with the European Green Deal, helping you meet ESG objectives.

Automated control solutions for numerous industries

DWE·EN Cold

Cuts industrial refrigeration electricity consumption by 10-30%

Use cases:

- High electricity consumption

- Inability to control the refrigeration system according to actual demand

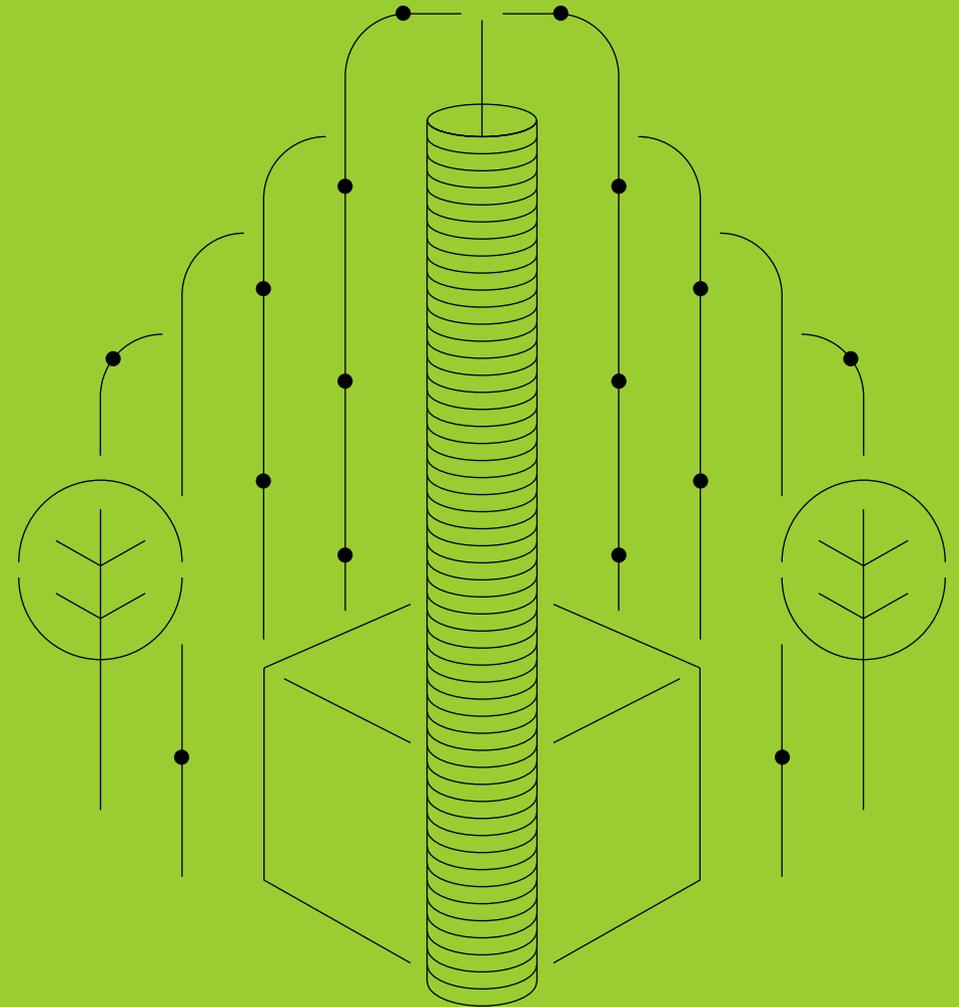- Frequent defrosting of units due to frost buildup

- And more...
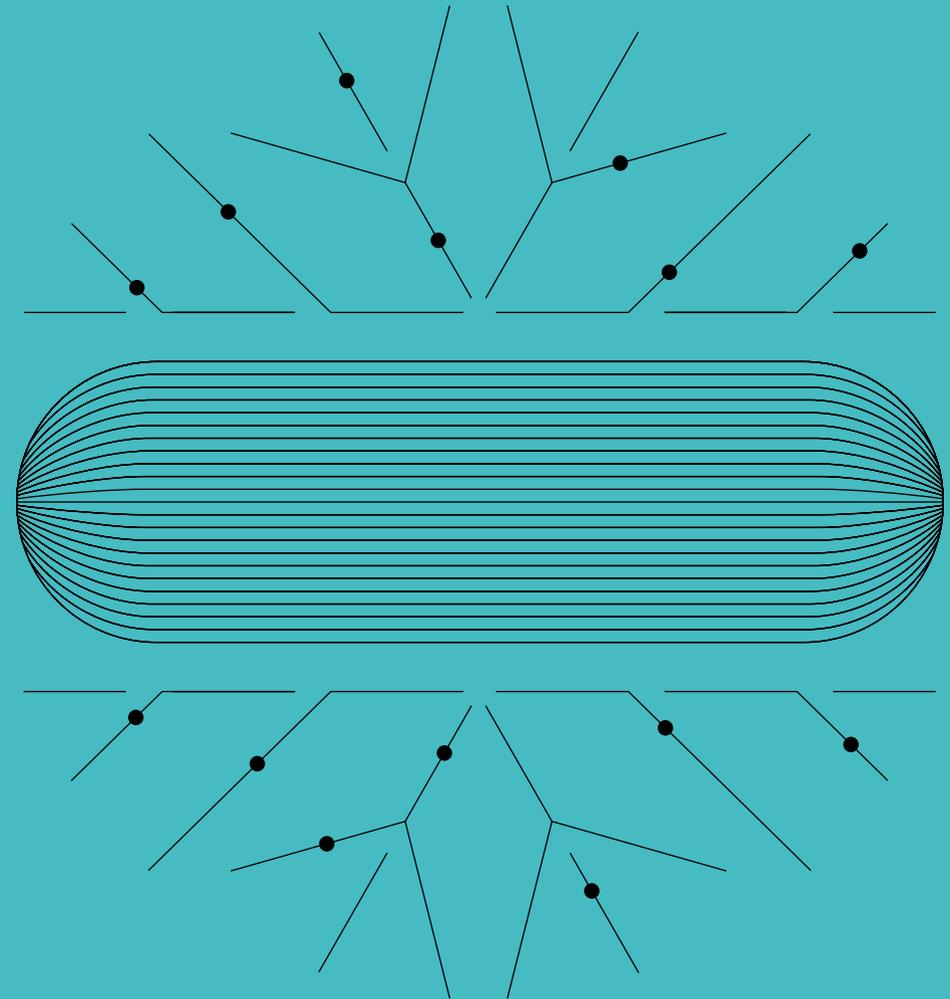
DWE·ƎN Boiler

Boosts biomass boiler efficiency by 2-5%, lowering biofuel consumption
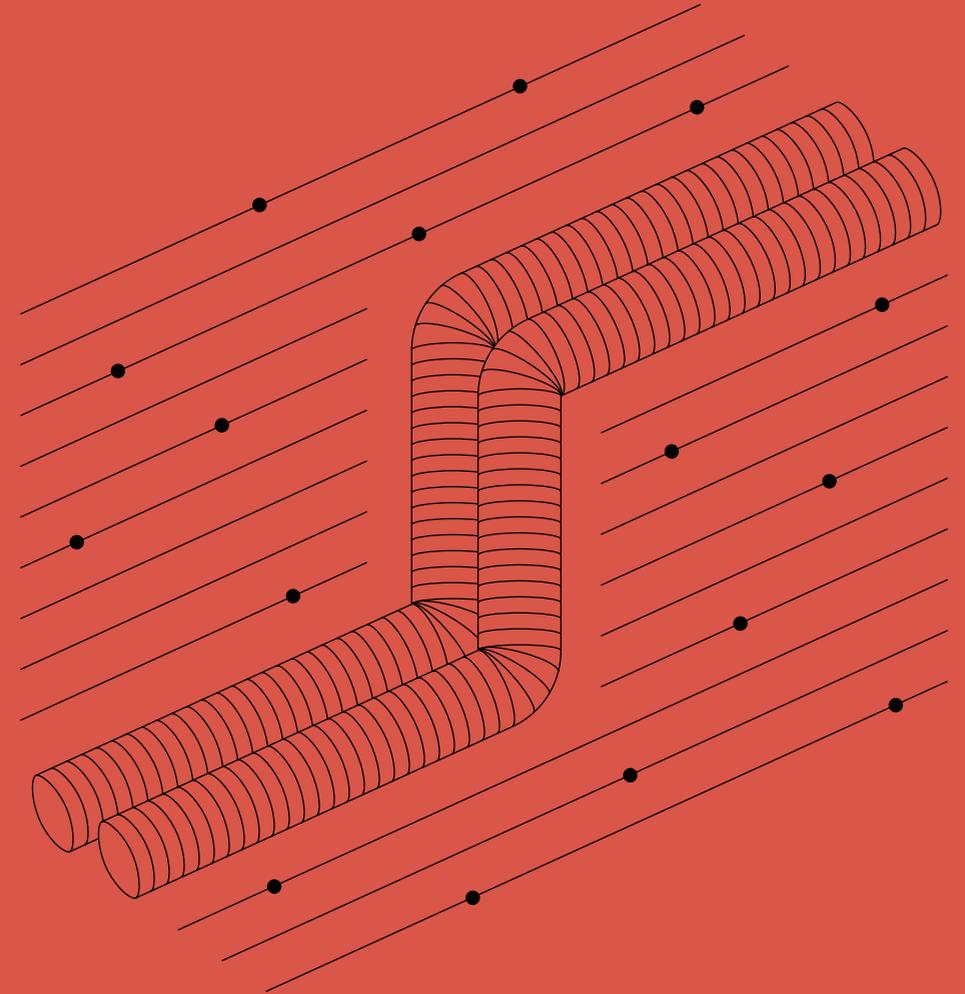
Use cases:

- Low boiler efficiency and high fuel consumption
- Unstable combustion
- Uneven distribution of fuel
- Unpredictable fuel moisture content
- And more...

DWE·EN Heat

Optimizes heat distribution networks, reducing heat energy losses by up to 15%.
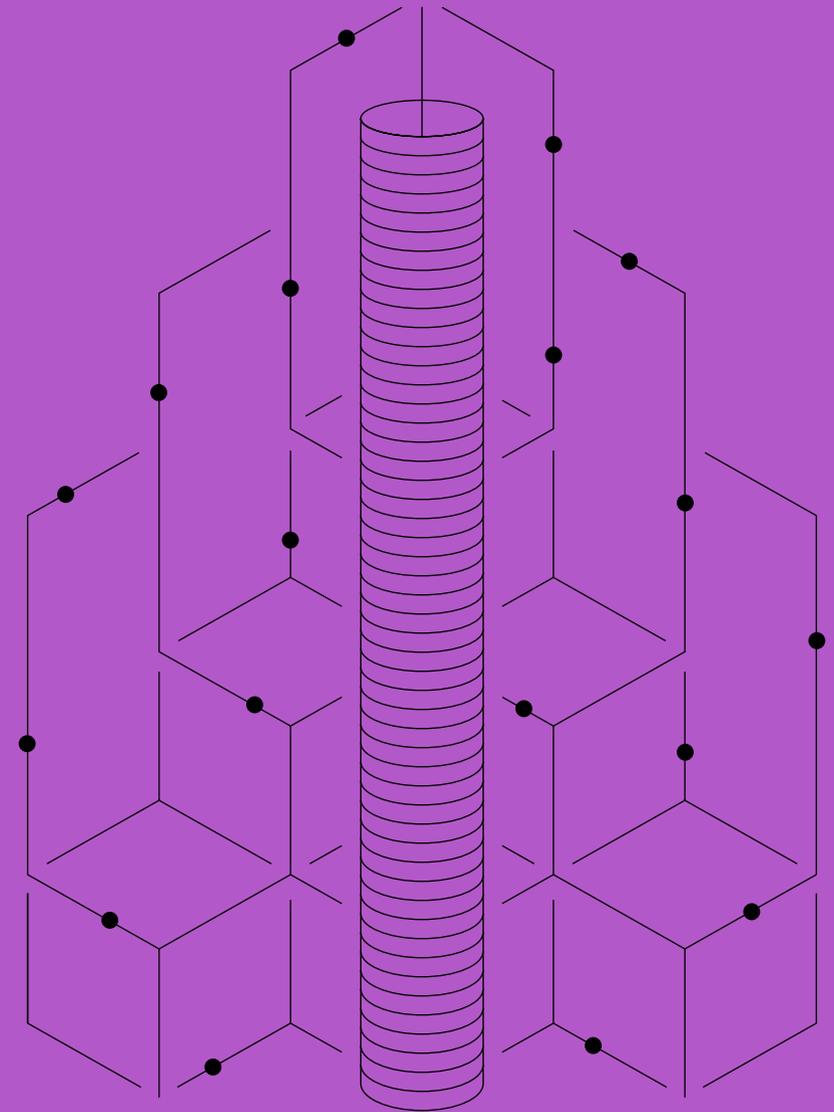
Use cases:

- Complex heat demand forecasting
- High heat losses on tracks and difficulty pinpointing network failures
- Insufficient heat stream supply temperature
- And more…

DWE·EN Waste

Improves combustion efficiency and asset availability, reduces CO_2 emissions chemical use

Use cases:

- Inability to prioritize boiler management

- Complex control of interconnected systems from multiple manufacturers

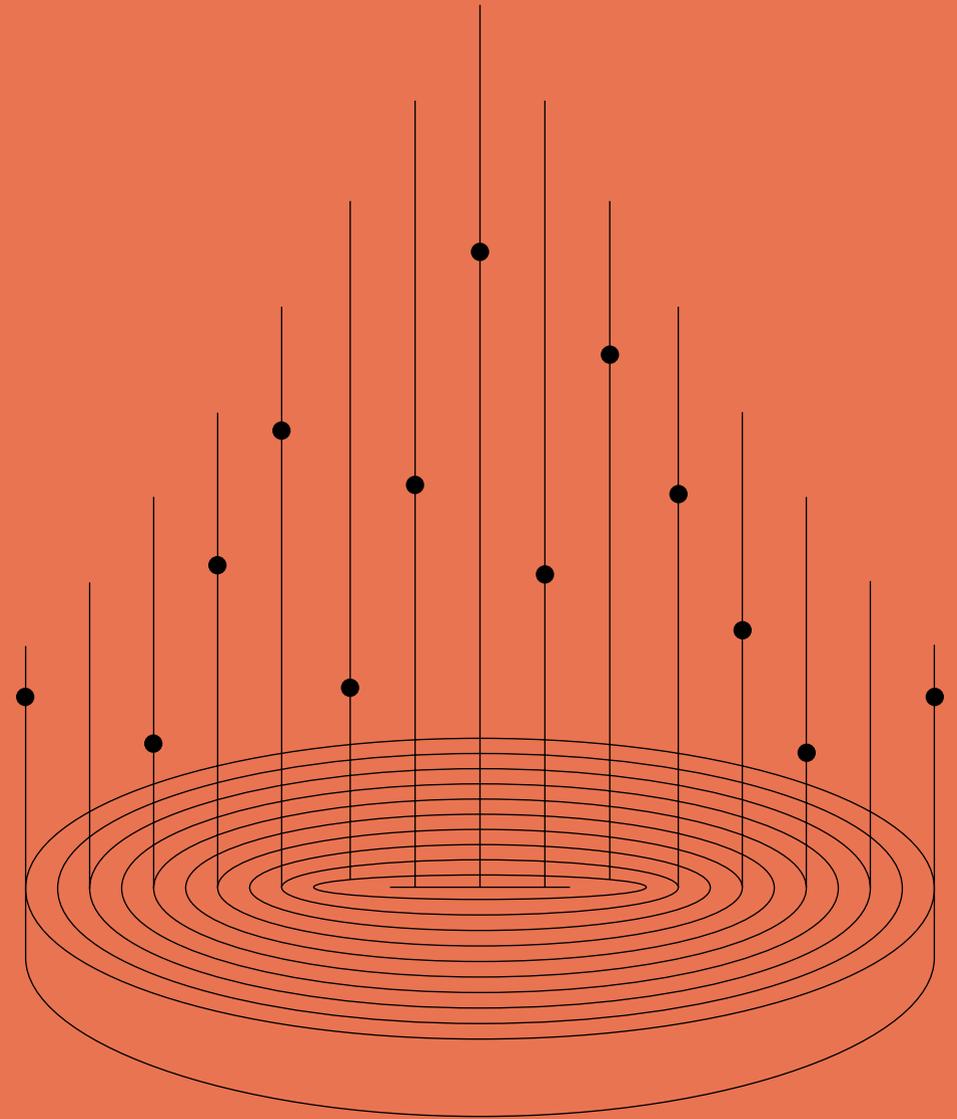- Challenges in predicting optimal operating modes

- And more...

DWE·ƎN Dry

Reduces energy consumption in product drying, increasing productivity by up to 16%

Use cases:

- Long drying times
- Technological process instability and lack of control
- Difficulty managing product quality (under- or over-drying)
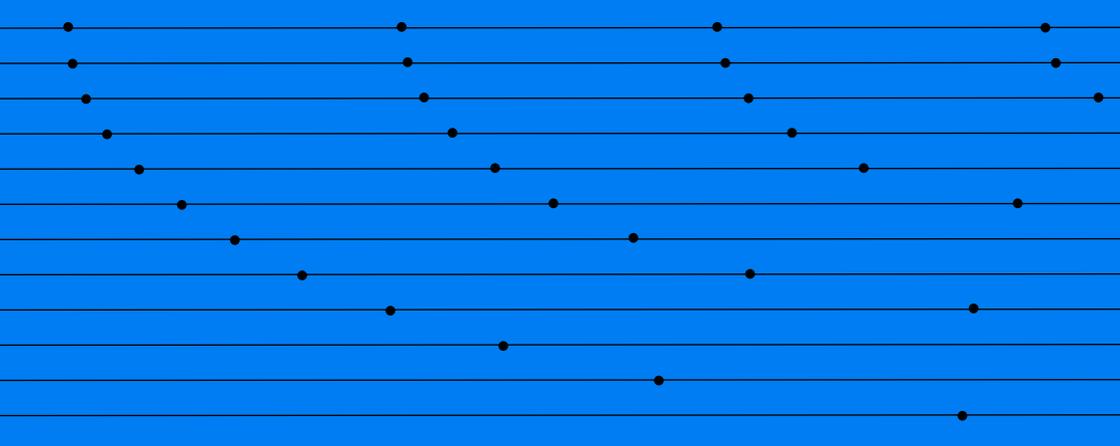- And more...

DWE·EN Air

Cuts indoor ventilation, heating, and cooling energy consumption by 10-15%

Use cases:

- High energy costs for ventilation (including air heating and cooling)
- Lack of precise and easy control over the ventilation system
- Difficulty maintaining technological parameters
- And more...
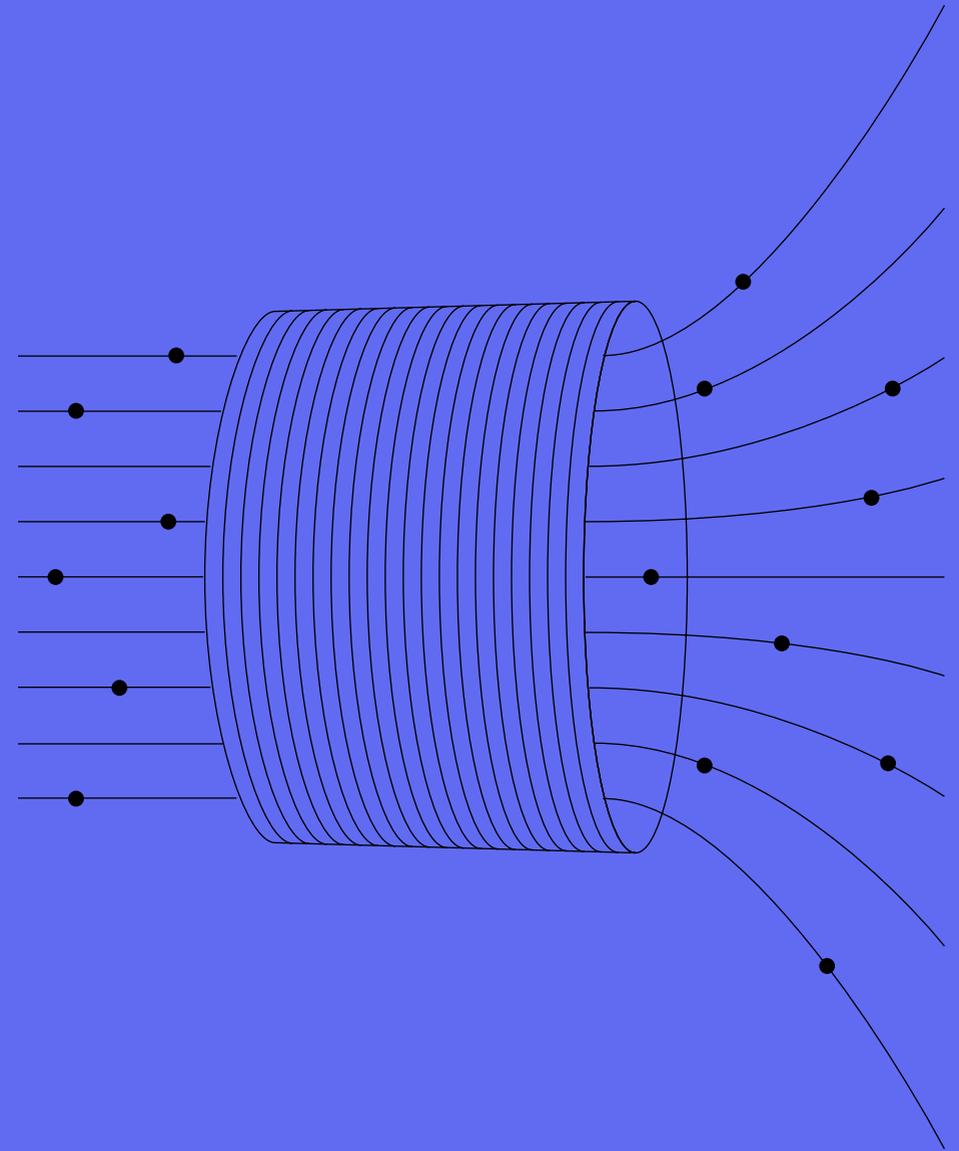
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