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2023 Innovation Planning: Reviewing Key Developments of 2022 and Predictions for the Future

Senior Analyst

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### 2023 INNOVATION PLANNING: REVIEWING KEY DEVELOPMENTS OF 2022 AND PREDICTIONS FOR THE FUTURE



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YONSH



The Deciding Factor



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# Agenda

### Key trends and hot research

2 Cross-industry insights from Lux experts

**3** Predictions for 2023

### Most-read report by sector

### OIL AND GAS

The Hydrogen Economy: The Cost of Storage & Transport

### CHEMICALS

Innovations for the Waste Supply Chain of 2030

#### INDUSTRIALS

Building in 2030: The Future of Sustainable Building Materials

### UTILITIES

Energy Storage Market Forecast: 2022 Edition

### CPG

The Landscape of Cell-Free Biomanufacturing

### DIGITAL

Reinventing the Global Supply Chain: The Role of Warehouse Robotics

Image source: Dezeen / Paolo Fassol

## Most-clicked startups by sector







### **Beyond industry: Hottest reports and presentations**



### Lux's first Inspire Reports for innovation strategy



CARBON CREDITS: BLESSING OR CURSE?

INSPIRE REPORT

INSPIRE REPORT

"

THE LUX NET-ZERO STRATEGY FRAMEWORK SURVIVING THE ENERGY TRANSITION



THE LUX SUSTAINABLE MANUFACTURING RADAR

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### A global perspective on innovation



# Cross-industry trends from 2022 impacting your 2023 innovation planning



# Volatility in oil and gas

How does the war in Ukraine affect industry?

LUX •

The gas crisis is here — find alternatives that are more dependable long term, like hydrogen.



#### Industrials

Beyond the energy crunch, governments are crafting industrial policy for a more competitive world.

"

#### Digital

Al and automation tools will be vital in 2023 to better mitigate volatility risks and workforce crunch.





# **Cash competition and scaling**

How and where can we scale supply to meet demand?

LUX •

Invest in energy capacity, keeping in mind the energy storage, grid capacity, and sheer amount of land needed to do so.

"

#### Digital

Data monetization will unlock new opportunities to moderate energy consumption on the demand side.



## **Carbon management**

How can emerging digital technologies boost your carbon management strategy?

LUX •

Partner or invest now in digital tools to meet your net-zero goals.

# "

#### Utilities

Digital tools are critical for assessing the reliability of new technologies. They can also be key for CBAM.

"

#### Industrials

Robust, multiparty software solutions will be necessary to track Scope 2 and 3 emissions.





# **Biomanufacturing momentum**

# How are companies looking to implement biomanufacturing for their sustainability efforts?

LUX • •

Engage with the right players to bridge the know-how gap and complement your technology expertise.



#### Chemicals

Geno is showing us that you can succeed in highervolume markets.

"

### Oil and Gas

LanzaTech, Cemvita Factory, and Electrochaea show strong emissions-reduction potential.



# Waste valorization

How are manufacturers using other companies' byproducts as inputs?

LUX •

No-emissions-attached wastes can reduce products' carbon footprint.

### CPG

Evaluate resource availability, regulations, and market demand to make a tangible impact.

"

#### Chemicals

Be mindful of how different opportunities compare; beyond market potential, think of core competencies.



# Traceability in the supply chain

How important is traceability for enabling circularity?

Beyond product disclosures, understand where traceability can create value for your business.

"

#### Digital

Blockchain can help, but you need to understand its strengths and limitations.

CPG

Traceability solutions enabling direct impact on sustainability will gain traction.



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# Startups to monitor in 2023











### **Thank You**

A link to the webinar recording will be emailed within 24–48 hours.

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Read: <u>http://www.luxresearchinc.com/blog/</u>

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#### **UPCOMING WEBINARS**

#### November 22nd

Product Innovation: Balancing Sustainability, Risk, and Returns

#### **December 20th**

The Top Technologies Enabling the Net-Zero Grid of the Future

#### January 24th

Market Opportunities in Emerging Consumer Health and Wellness Ecosystems

#### February 21st

Sustainability Driving New Business Models in Manufacturing