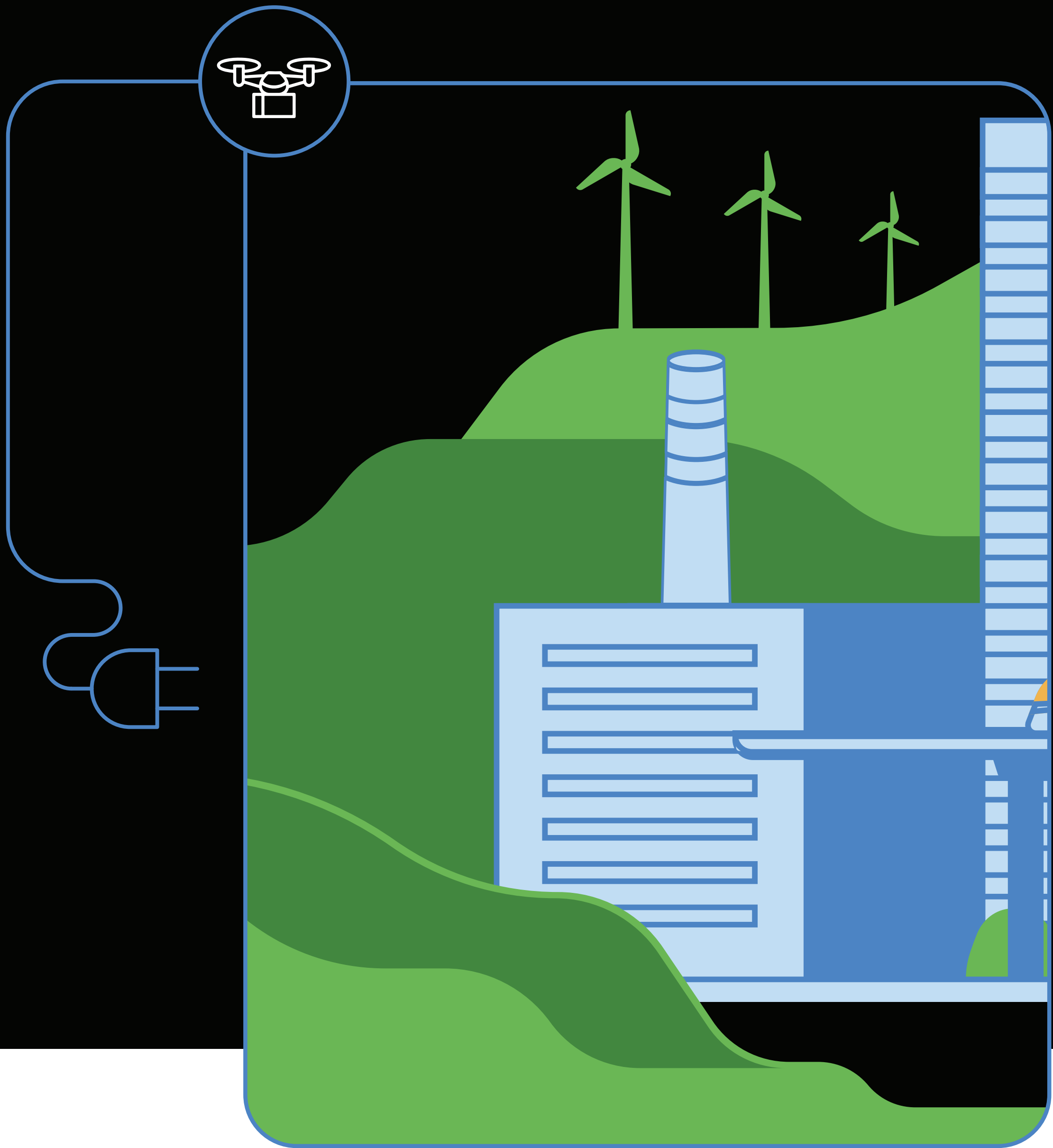


How could **digital twins** help  
create more energy efficient  
business ecosystems?





## Manufacturing

Optimize material use and sourcing; minimize waste; and reduce unplanned downtime and energy consumption.

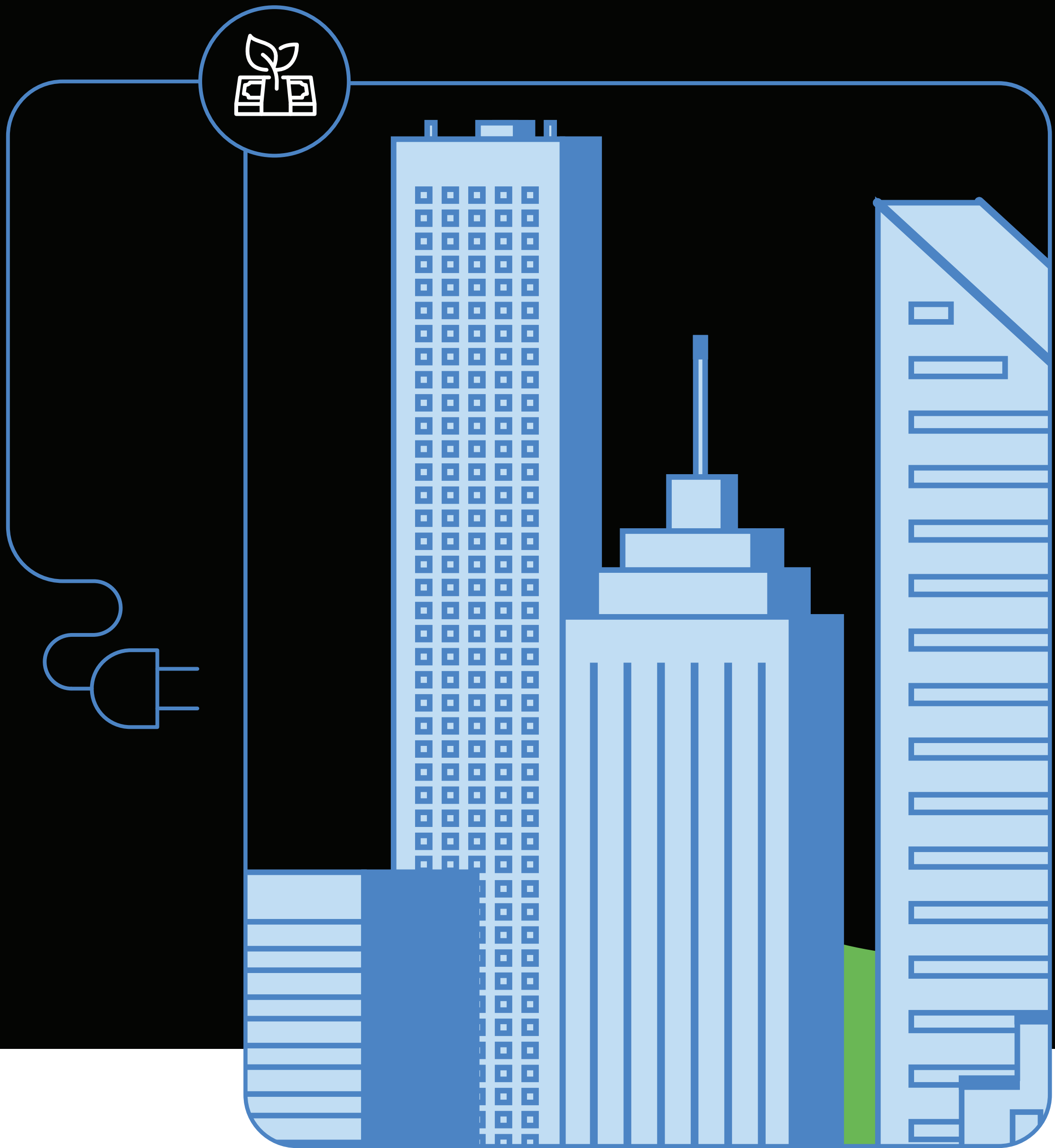




## Transportation

Reduce carbon footprint and optimize routes to prevent congestion points and idling.





## Banking & Financial Services

Use digital twins of data centers and branch networks to optimize energy efficiency, monitor ESG-aligned operations, and model the sustainability impact of financial products and investments.

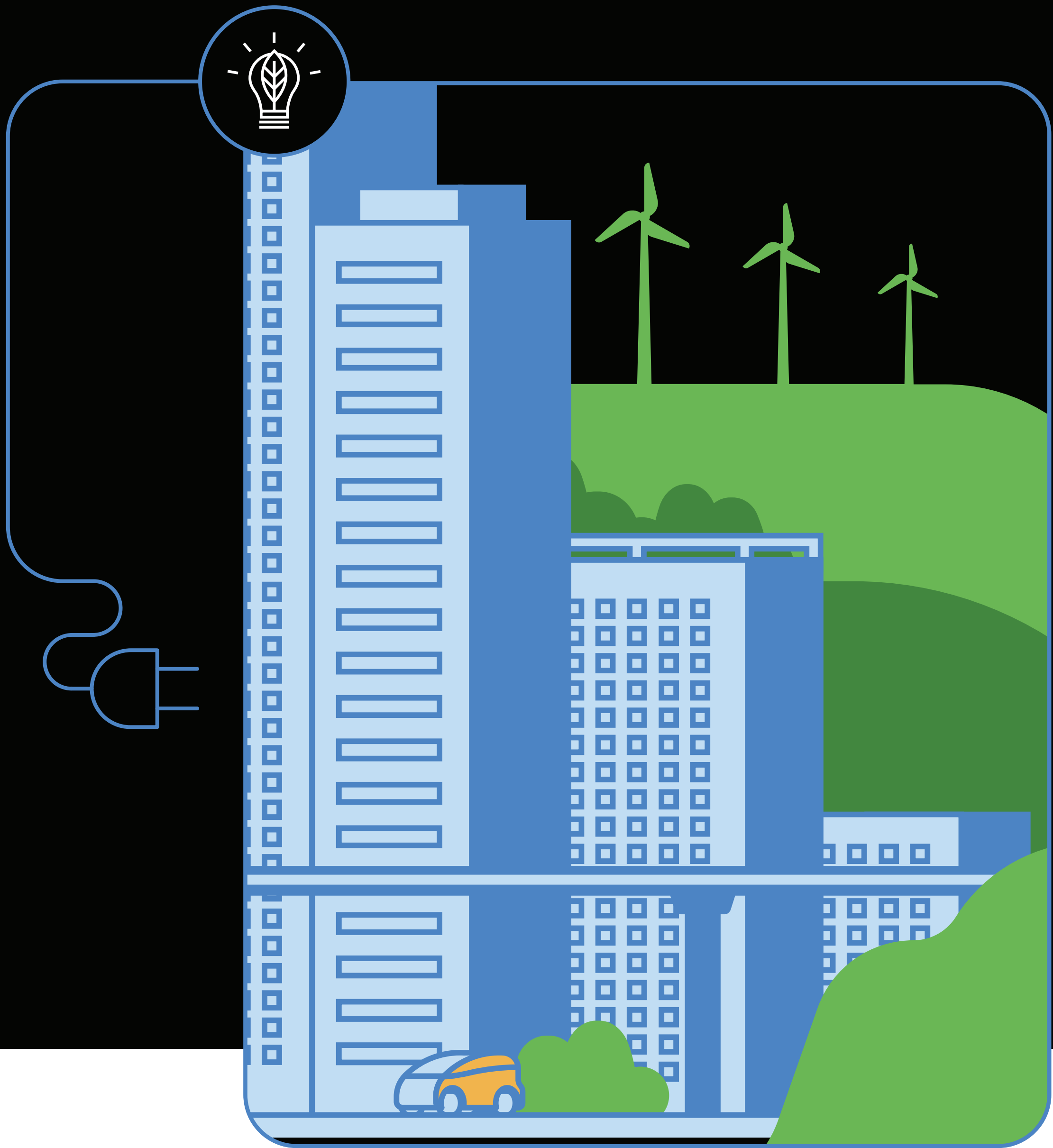




## Retail

A digital twin of every product traces individual carbon footprint and identifies inefficiencies to reduce packaging waste and improve inventory management.





## Utilities

Model water, gas, and electricity networks in real time to detect inefficiencies, predict demand surges, and reduce waste while integrating renewable energy sources more effectively.



## Circular Economy

Track the flow of materials and products through a digital twin model to identify opportunities for reuse and repurposing, reducing waste and extending the lifecycle of products.

