

SOLID-STATE CARBON DIOXIDE SENSOR



CO2 is **Critical** for Life

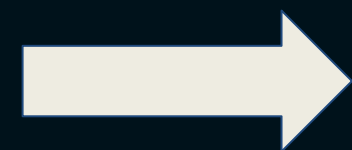
Healthcare

Agriculture

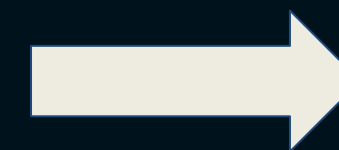
Environment

Industrial

Detect



Alert



Inform
Decisions

The Problem

Existing CO₂ sensors face **significant limitations** in functionality, adaptability and accuracy making them unsuitable for diverse environments.

Nanomaterial Solutions Excel

Solid-state

Precise and reliable

Wide range of temperature

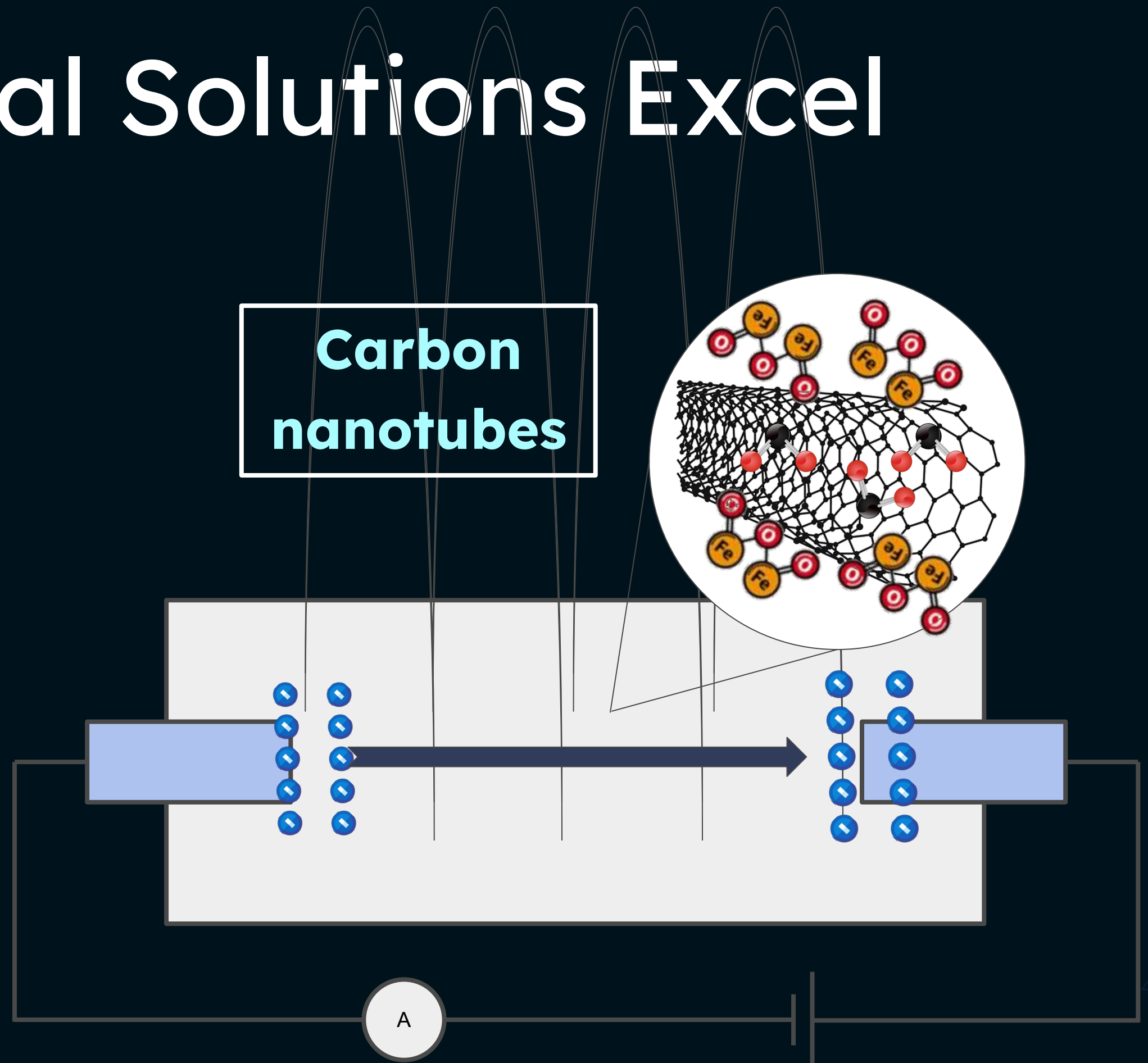
humidity and pressure

Minimal power

Compact

Rapid and accurate

Cost-effective

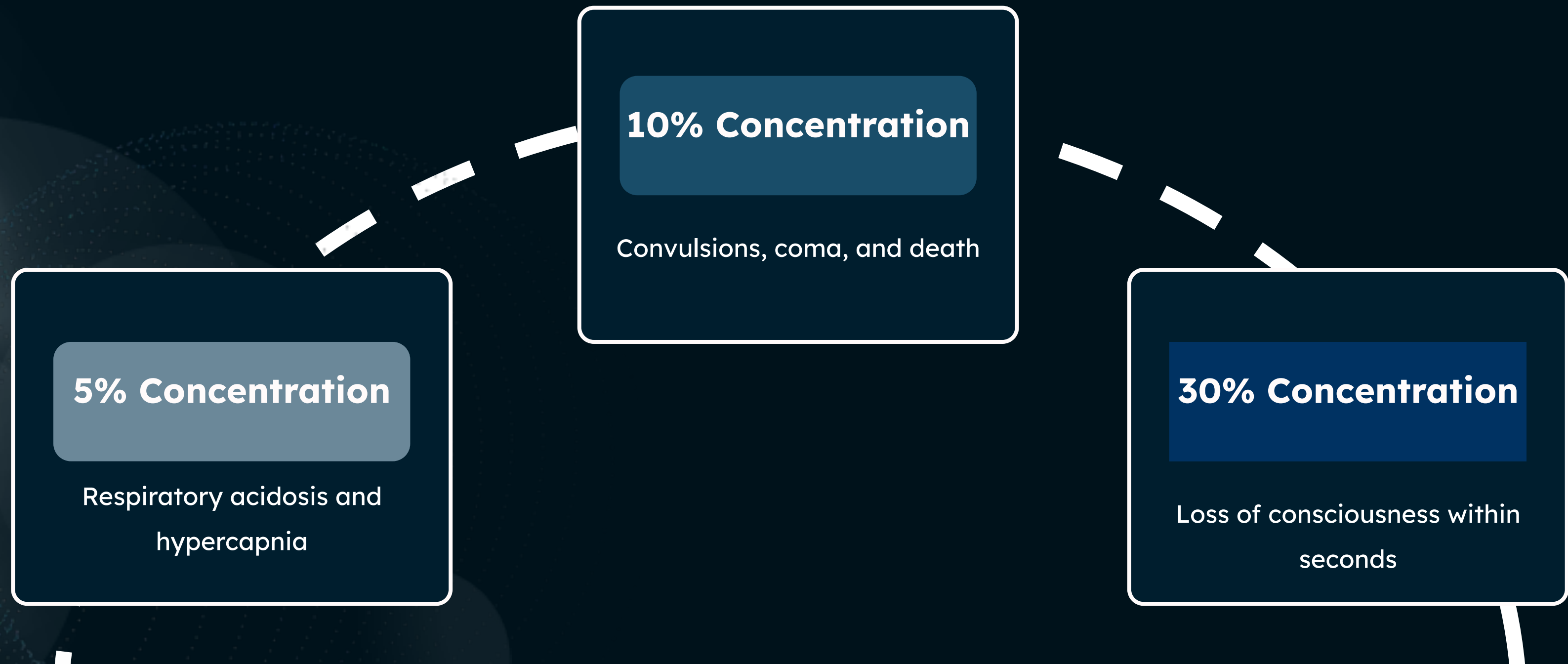


Outperforming Existing Solutions

Design Advantages	NDIR	Metal Oxide	Silicon Nanowires	CNTs	NASA
Low Cost	✗	✓	✗	✗	✓
Accurate Sensitivity	✓	✗	✗	✗	✓
Low Power Consumption	✗	✗	✓	✓	✓
Lightweight	✗	✓	✓	✓	✓
Variable Environment Functioning	✗	✗	✓	✓	✓
Mobile Integration	✗	✓	✗	✗	✓

Ambient Monitoring For CO2 Intoxication Risk Alerts

Confined Space Hypoxia



Expected Market Growth

Assumptions

	2024		2030
1. Climate change driven growth	114B	TAM	340B
2. Personal health conscious population	14.5B	SAM	18.6B
3. Increasing regulatory trends	1.45B	SOM	1.86B
4. Funding			