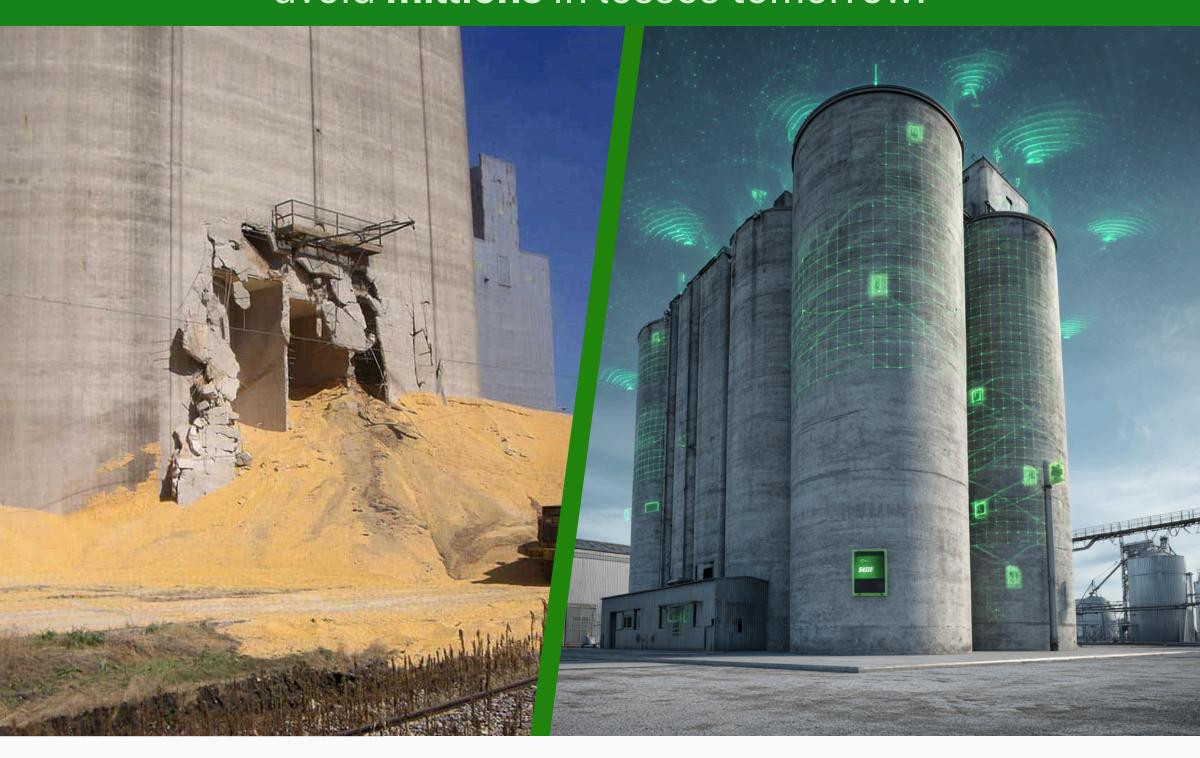
DIGIT/AL SILO

Invest in **real-time monitoring** today, avoid **millions** in losses tomorrow!



ADVENTUM TECH MEASURING THE INVISIBLE

DIGITAL SILO

- Average loss per incident:
 \$2–10 million
- Damage to people, production, and reputation
- Insurance claims are rising inspections are often reactive, not predictive



EACH COLLAPSE COSTS MILLIONS AND CAN BE FATAL

GRAIN AND CEMENT SILO = CONSTANT DYNAMIC LOADS

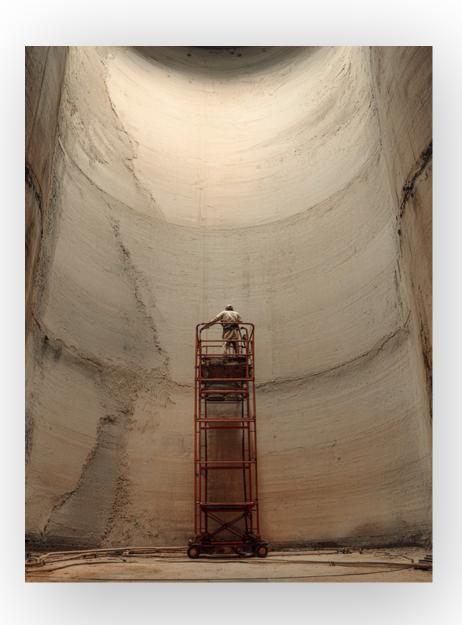


- ▲ Thousands of off-farm silos and millions of on-farm silos currently in operation
- Around 47% of all stored grain volume is held in off-farm facilities with average storage capacity 1.2 million bu per silo

ADVENTUM TECH MEASURING THE INVISIBLE

Traditional inspection and monitoring methods can't keep up with the real-world behavior of silos

- Design models rarely reflect actual load patterns experienced during operation
- Foundation settlement and concrete curing can shift alignment and compromise stability
- Inspections are often reactive, not predictive

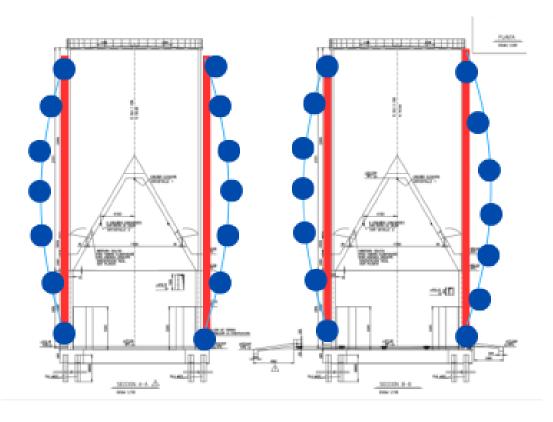




- Manual visual checks cannot detect internal stress or microdeformations
- Annual measurements provide information **too late** to enable timely intervention
- Valuable structural data remains offline and unused

ADVENTUM TECH MEASURING THE INVISIBLE

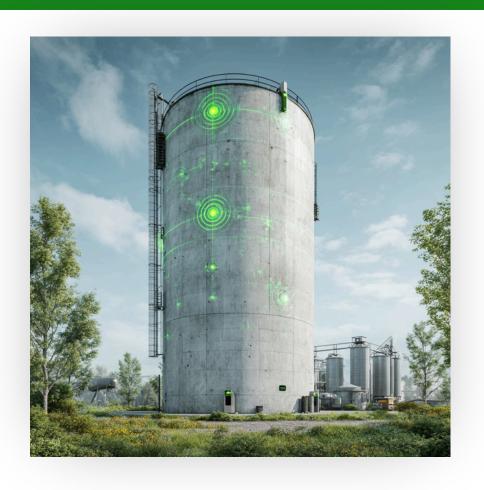
TURNING EACH SILO INTO A SELF-REPORTING DIGITAL ASSET



- Installed network of wireless sensors
- Vibration | Tilt | Temperature | Load | Settlement
- 24/7 monitoring of structural response under real loads
- Al analytics detect patterns invisible to human eye

THE SOLUTION

- Sensors capture real-time structural data
- Data is sent securely to the cloud
- Al models analyze and highlight potential risk zones
- Users receive early alerts and visual stress maps on their dashboard



ADVENTUM TECH MEASURING THE INVISIBLE

DATA-DRIVEN PROTECTION THAT PAYS OFF



- Prevent failures before they occur
- Reduce insurance risk and downtime
- Optimize maintenance schedules
- Extend structure lifespan by 100%
- Guarantee full compliance with safety and ESG standards

Contact Us

Have a project that requires real-time structural monitoring? Whether you're in the design phase, construction, or long-term operation, our experts are ready to provide tailored structural health monitoring solutions to meet your needs.



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