

The logo for Tyrosine Consulting features the word "TYROSINE" in a large, bold, black sans-serif font. A thick black horizontal bar is positioned below the letters "Y", "R", and "O". To the right of this bar, the word "CONSULTING" is written in a smaller, black, all-caps sans-serif font.

TYROSINE
CONSULTING

“Integrating years of experience in water treatment with cutting-edge engineering, data analysis, and innovation management”

An aerial photograph of a multi-lane highway bridge spanning across a body of water. The water is a vibrant teal color. Several vehicles, including cars and trucks, are visible on the bridge. In the foreground, several white lines, possibly power lines or cables, run diagonally across the water's surface.

ENGINEERING
SMARTER WATER
TREATMENT
SOLUTIONS



ABOUT TYROSINE CONSULTING



Vision

To redefine global water treatment standards through intelligent engineering, where every system we design achieves operational excellence, sustainability, and regulatory foresight – turning complex challenges into measurable competitive advantages for our clients.



Mission

Our mission is to deliver solutions that optimize performance, reduce lifecycle costs, and future-proof water infrastructure against evolving demands.



THE CHALLENGE IN ADVANCED WATER TREATMENT

Complex processes
+ Stringent
regulations = The
need for continuous
improvement

Traditional
approaches often
lead to data silos &
missed
opportunities

Tyrosine's unique
approach to
smarter & more
integrated services



TYROSINE CONSULTING COMPETITIVE ADVANTAGE



Advanced Process Engineering
Deliverables



Enhanced Process Control & Process
Efficiency



Predictive Analytics for Process
Reliability & Improvement



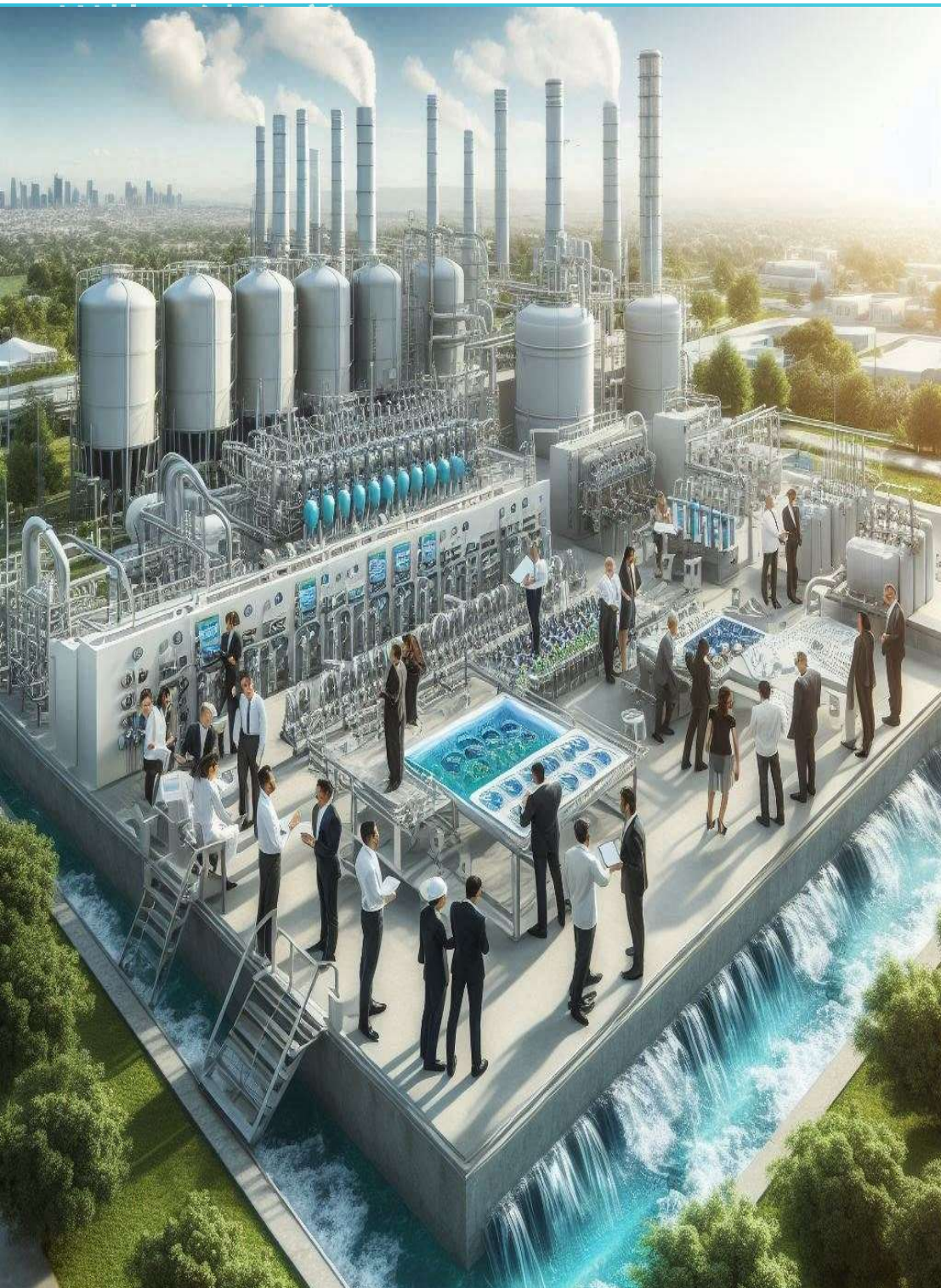
Data Driven Innovative Process
Solutions



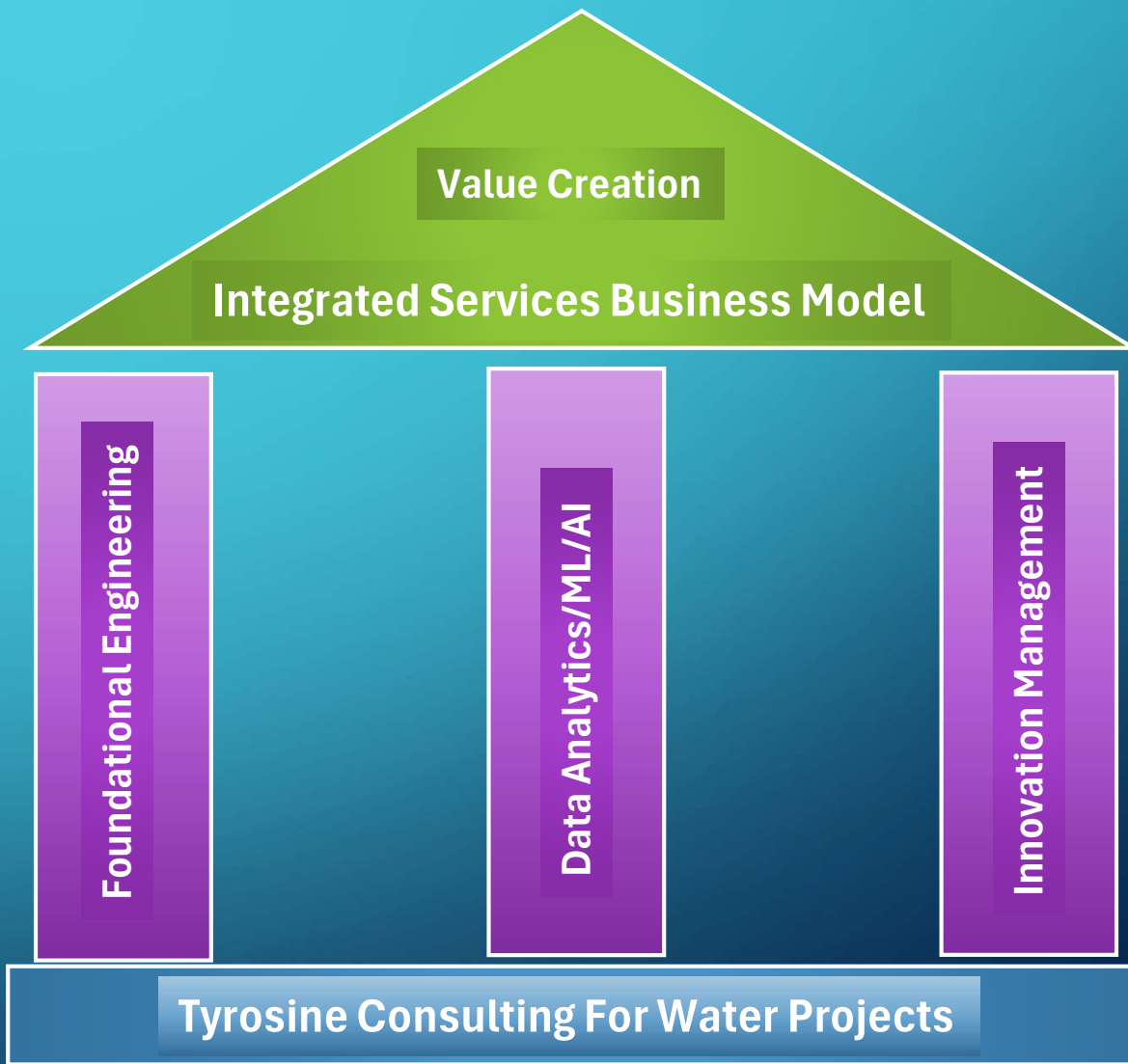
Strategic Innovation & Technology
Development



Seamless Integrated Expertise



SYNERGIZING CORE SERVICES: TYROSINE'S INTEGRATED APPROACH TO ADD VALUE





PILLAR 1: FOUNDATIONAL PROCESS ENGINEERING - THE FOUNDATION

Expertise in initial designs (FEED, Detailed Engineering), process models, and equipment specifications

Core Output: Robust and reliable water projects designs



Provides the essential framework and data for advanced analysis and innovation



PILLAR 2: DATA ANALYTICS, ML & AI - INTELLIGENCE AND OPTIMIZATION

Leveraging process data to generate actionable insights

Core Output: Data-optimized operations and predictive capabilities



Performance monitoring, optimization opportunities, predictive models (maintenance, quality), and anomaly detection



PILLAR 3: INNOVATION MANAGEMENT - THE FUTURE OF WATER TREATMENT

Identifying market needs and emerging technologies

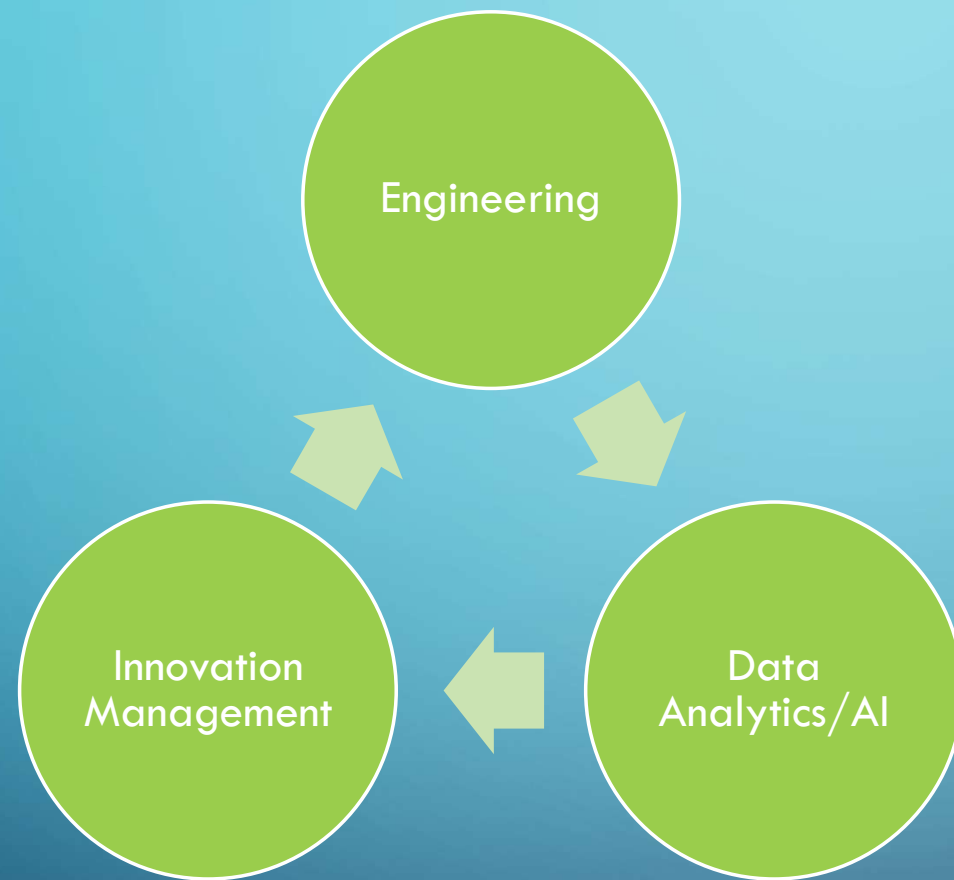
Implementing improvements for cutting-edge solutions



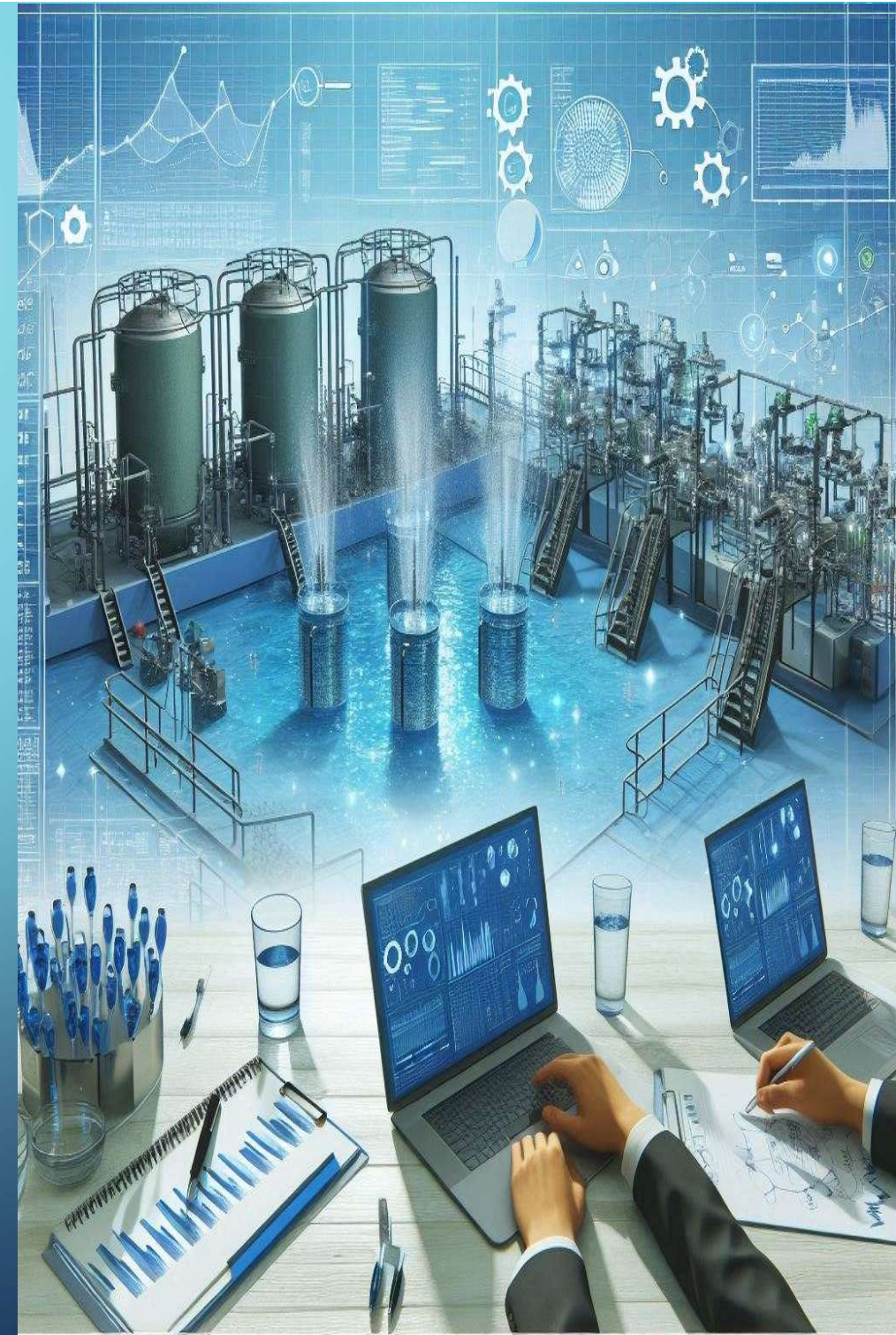
Developing technology roadmaps and business cases for innovation

Core Output: Strategically innovative and future-ready solutions

TYROSINE'S VIRTUOUS CYCLE OF VALUE CREATION



Continuous Improvement Through Collaboration



TYROSINE CONSULTING: UNPARALLELED CLIENT VALUE

Designs are not
just engineered

Designs are also
Data-Optimized

Solutions are
not just
incremental

Solutions are also
**Strategically
Innovative**

Operations are
not just
monitored

Operations are
also **Intelligently
Managed**



**Result: Superior Efficiency, Reliability, and
Future-Readiness**



TYROSINE CONSULTING: ADDING VALUE THROUGH DATA & INNOVATION

Historical Data Analysis: Uncovering long-term trends and root causes

Experiment Data Analysis: Validating improvements and optimizing processes

Simulations & Models: Predicting outcomes and evaluating scenarios

Advanced Monitoring & Fault Detection: Proactive issue prevention

Predictive & Diagnostic Analytics: Anticipating problems and identifying areas for improvement

Innovation Management: Driving new product and solution development



WHY TYROSINE CONSULTING?



INTEGRATED
EXPERTISE
ACROSS
PROCESS
ENGINEERING,
DATA SCIENCE,
AND
INNOVATION



DATA-DRIVEN
APPROACH FOR
OPTIMAL
PERFORMANCE
AND
CONTINUOUS
IMPROVEMENT



COMMITMENT
TO DELIVERING
STRATEGICALLY
INNOVATIVE
AND FUTURE-
READY
SOLUTIONS

THANK YOU!

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