

Presentation to the Wisconsin Commercial Ports Association (WCPA)

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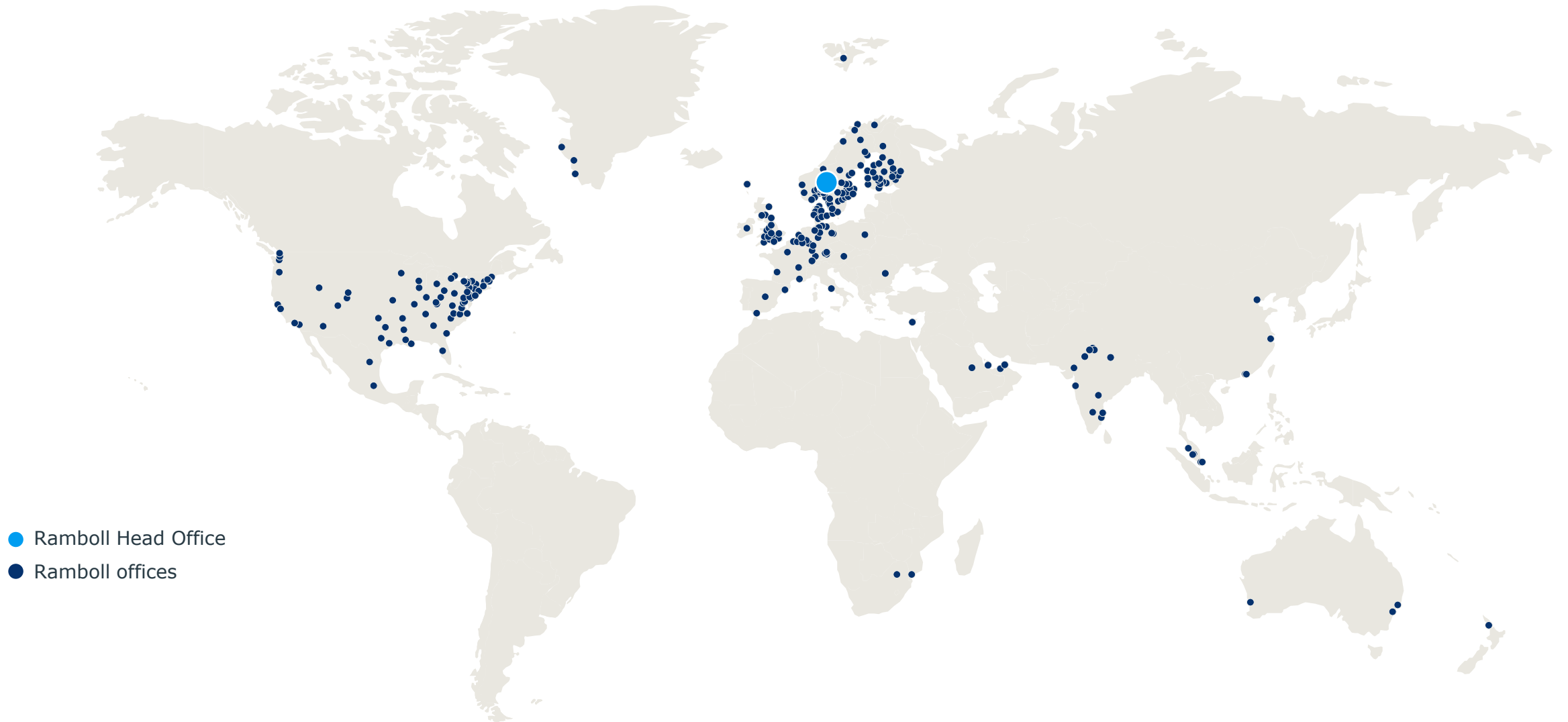
Friday, September 11, 2026

RAMBOLL

Bright ideas.
Sustainable change.



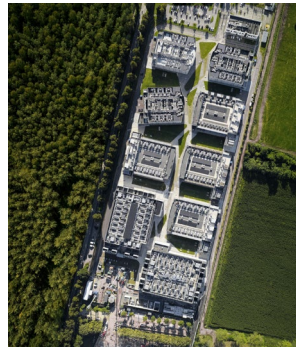
Our global presence



Our expertise

We operate throughout our clients' value chains, leveraging our expertise, innovative spirit, and creativity to address the risks and opportunities in ever-changing technological, environmental, and regulatory landscapes.

Business areas



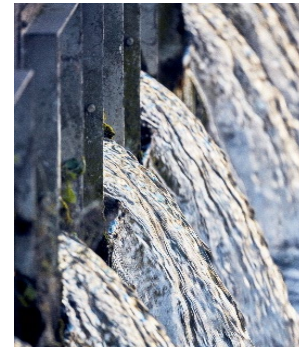
Buildings



Energy



Environment
& Health



Water



Architecture
& Landscape

Key sectors



Aerospace



Chemicals



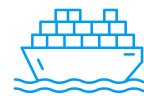
Data centers



Manufacturing



Pharmaceuticals



Ports



Power solutions



Public sector



Real estate

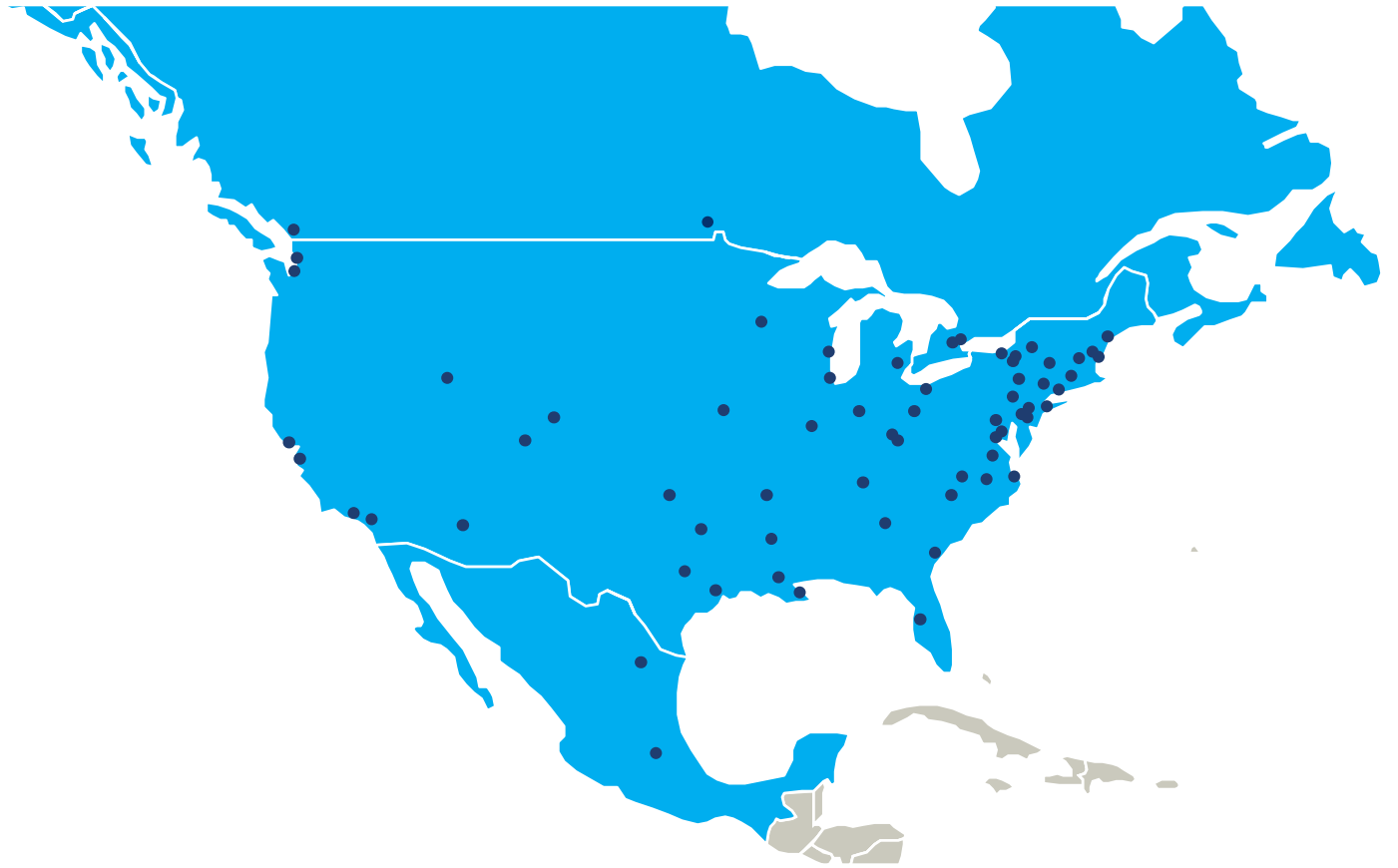
Communities where we live and work



2,100 employees



60 offices



Our business areas



Close-up on Americas

Environmental & Health

We combine our deep understanding of climate, environmental, and human health issues with proven engineering expertise and trusted business finance and organizational management skills to deliver a multidisciplinary approach that helps clients turn their sustainability ambitions into real-world actions.

Core practice areas

- Air & climate
- Biodiversity
- Circular economy
- Compliance, strategy & transition
- Data centers
- Waste water & resources management
- Health sciences
- Impact assessment
- Decarbonization
- Site solutions
- Energy transition
- ESG
- PFAS

Key clients



Honeywell





Close-up on Americas

Water

At Ramboll, we understand that all water has value. That's why we offer integrated, tailored solutions that address some of the most challenging water issues facing society. Our experts draw on decades of strategic and technical experience to not only understand water cycles at the municipal, local, and industrial level, but to influence how they work.

Core practice areas

- Climate adaptation and nature-based solutions
- Water infrastructure
- Dams
- Stormwater and site civil
- Water and wastewater treatment design
- Wastewater resource recovery and water circularity
- Sustainable water resources
- Water resources management
- Smart integrated water infrastructure master planning

Key clients





Close-up on Americas

Energy

We offer an integrated approach to energy that supports the sector on the journey towards resilient and agile solutions. We support industrial clients, organizations, and municipalities across the region with energy efficiency and implementation of sustainable energy development projects and development of district heating and cooling systems.

In 2025, Ramboll acquired leading Canadian power systems consultancy, TransGrid Solutions, strengthening our position in the green energy transition, enhancing our capability to deliver leading edge solutions in power systems worldwide.

Core practice areas

- Wind
- District energy
- Solar/BESS
- Decarbonization
- Power systems
- HVDC and FACTS
- Advanced manufacturing
- Renewable fuels
- Energy-intensive industries
- Technology scale up

Key clients



Ports and Maritime

Multidisciplinary Services Support all Phases of Maritime, Port, and Terminal Development

Ramboll has globally supported all phases of port and terminal development.



Outline Design Feasibility

- Holistic planning support including market demand analysis, stakeholder engagement, regulatory pathways, and funding strategy.
- Assessment of maritime technologies, clean fuels, logistics needs, and operational models.
- Feasibility studies, site screening, navigation considerations, and conceptual terminal layouts.



Design: Outline, basic and detailed

- Technical assessments of waterfront conditions, utilities, vessel access, and multimodal connections leading to conceptual terminal design.
- Structural and civil engineering for berths, yards, and support facilities.
- Integration of environmental permitting requirements.
- Procurement support, tender evaluation, and project delivery planning.



Manufacturing and construction

- Oversight of marine and landside construction, ensuring design alignment, safety compliance, and quality control.
- On-site inspections for shoreline work, utilities, berth structures, and equipment installation.
- Construction progress reporting to maintain schedule and transparency.



Test and commissioning

- Commissioning of terminal systems, utilities, and operational equipment.
- Testing of vessel interface systems, cargo-handling equipment, and safety protocols.
- Review of maritime certifications, O&M documentation, and operational readiness plans.
- Contract oversight and budget monitoring.



Operation

- Ongoing operational support including maintenance planning, terminal performance optimization, emissions monitoring, and safety reviews.
- Development of asset management strategies for berths, yards, and support systems.
- Long-term resilience, decarbonization, and capacity planning.

Establish an understanding of the viability of the project

Establish sound basis for launching the project

Ensure that facility is ready for commission and built in accordance with requirements

Ensure that facility is in stable operation in accordance with requirements

Ensure that facility has high availability and strong performance

Environmental Management Leadership

- Ports and marine operations and their inherent environmental risks are extremely complex, and often subject to stringent regulations.
- Ramboll is a leading provider of independent consultancy services across all aspects of port environmental management.

Services

- Permitting and compliance
- Due diligence
- Environmental management systems
- Sediment management
- Environmental & social impact assessment
- Noise impact and assessment
- Strategic water and wastewater planning services
- Climate change and adaptation services



Managing Risk

Permitting and compliance

- Permitting expertise across complex port and marine facilities, with particular depth in air quality
- Develop port emissions inventories and assess impacts on ozone, particulates, air toxics, and GHGs
- Evaluate shore-side and vessel-side emissions reduction strategies and their expected benefits

Due diligence

- More than 30 years of environmental due diligence experience supporting investors, lenders, developers, and industry
- Rapid-turnaround assessments for ports and tenants worldwide
- Evaluate site conditions, environmental liabilities, operational compliance, and transaction risk

Environmental management systems

- Develop and implement environmental management systems supporting landside and marine compliance
- Help clients demonstrate strong environmental and safety performance and continuous improvement
- Reduce regulatory exposure, violations, and potentially significant unknown liabilities



Navigating Impacts

Sediment management

- Integrate ecology, engineering, hydrodynamics, risk assessment, remediation, stormwater, and water-quality expertise
- Navigate complex requirements governing contaminated sediments and dredged material
- Support investigation, management, remediation, and beneficial-use strategies for ports and harbors

Environmental and social assessment

- Global experience managing complex environmental and social impact assessments
- Combine technical analysis with practical expertise in project delivery, policy, and regulatory frameworks
- Experienced with international finance standards, including World Bank/IFC and Equator Principles requirements

Noise assessment

- Assess environmental noise impacts under diverse regulatory frameworks and policies
- Evaluate both off-site impacts from proposed projects and site suitability for sensitive uses
- Develop practical mitigation strategies supporting permitting and project implementation



Building Resilience into Investment

Strategic water and wastewater planning services

- Address water and wastewater issues from source through receiving-water impacts
- Support new facilities, modifications, regulatory changes, audits, and discharge permitting
- Provide compliance training, technical advocacy, watershed planning, and water-quality impact assessments

Climate change and adaptation services

- Evaluate port vulnerability to sea-level rise, storms, flooding, extreme heat, and other climate hazards
- Translate physical climate risks into operational, financial, and capital-planning implications
- Develop practical adaptation strategies that strengthen resilience and long-term investment decisions



Partner Highlights



Programmatic environmental leadership supporting large-scale decarbonization

The Challenge

- The Port of Los Angeles sought to reduce emissions and modernize operations while maintaining throughput, regulatory certainty, and economic competitiveness at one of the nation's busiest container ports.

Ramboll's Role

- Ramboll paired long-standing CEQA and NEPA leadership with rigorous technical and feasibility analysis to support deployment of low- and zero-emission port technologies.

Key Action

- Led CEQA and NEPA environmental documentation programs
- Performed multidisciplinary air quality and health analyses
- Quantified greenhouse gas and criteria pollutant impacts
- Evaluated low- and zero-emission technology feasibility
- Conducted cost-benefit and operational assessments
- Supported pilot program and technology demonstrations

Why It Matters

- Established a durable environmental and technical foundation that has enabled decades of emissions reduction, innovation, and operational transformation at the Port of Los Angeles.

Through a trusted, long-term partnership, Ramboll has enabled the Port of Los Angeles to align environmental rigor with operational ambition, supporting technology adaptation, regulatory certainty, and sustained leadership in port sustainability.



America's Central Port: Strengthening a Multimodal Inland Hub

The Challenge

- America's Central Port sought to strengthen its facilities against severe weather, while establishing a baseline understanding of emissions and energy use to guide future capital investment across a complex multimodal freight campus.

Ramboll's Role

- Ramboll developed a Resilient Infrastructure Strategy grounded in technical studies, pairing infrastructure risk and stormwater analysis with the Port's first emissions inventory and energy assessment to prioritize adaptation investments.

Key Actions

- Completed the Port's first baseline GHG emissions inventory across Scopes 1, 2, and 3
- Conducted building energy assessments identifying efficiency and electrification opportunities
- Evaluated decarbonization measures and prioritized a focused set of feasible actions
- Assessed infrastructure vulnerability to flooding, severe storms, and extreme heat
- Designed nature-based blue-green stormwater solutions to manage future flood risk
- Prioritized structural and emergency-response measures to protect critical assets

Why it Matters

- The strategy gives the Port a data-driven roadmap to withstand climate-driven hazards, protect operations, and strengthen its competitiveness for resilience and grant funding.

Resilience planning protects port operations today and unlocks investment and funding for tomorrow. Future ports will compete on their ability to withstand climate-driven disruption, not simply move cargo.



Strategic feasibility and infrastructure planning for innovation and modernization

The Challenge

- Port Detroit aims to assess the viability of an innovation terminal to optimize overall operations, expand export capacity, integrate alternative fuels, and align with the State of Michigan's new maritime strategy.

Ramboll's Role

- Ramboll is leading a multidisciplinary study integrating market, operational, infrastructure, workforce, and technology evaluations to ensure equity, economic development, trade competitiveness, and strategic alignment.

Key Actions

- Assessed terminal operational efficiency and cargo throughput
- Evaluated market demand and export opportunities for regional industries
- Analyzed infrastructure modernization requirements and constraints
- Explored alternative fuels and technology integration pathways
- Identified workforce and equity considerations for long-term competitiveness
- Synthesized findings into actionable feasibility outcomes and recommendations

Why It Matters

- Provided comprehensive assessment to inform decision-making on design, investment, enhancements, and strategic positioning, helping to expand the Port and the State's role in North American maritime commerce.

Ramboll is equipping Port Detroit with integrated technical, market and strategic insights to guide future terminal development, accelerate innovation, and strengthen regional trade, infrastructure and workforce readiness.



Integrated Capital Asset Renewal and Climate Resilience Planning

The Challenge

- Port Milwaukee faced accelerating climate impacts, aging waterfront infrastructure, and rising cargo and cruise activity, requiring a defensible, long-term investment strategy to sustain growth and reliability.

Ramboll's Role

- Ramboll integrated asset management, digital surveys, stakeholder engagement, and climate resilience planning to create a unified, data-driven roadmap for prioritizing capital investments.

Key Actions

- Conducted comprehensive inspections of port-wide assets
- Facilitated workshops to align leadership and staff priorities
- Deployed drone surveys and 3D digital modeling
- Evaluated lifecycle costs and remaining useful life
- Integrated climate adaptation into capital planning decisions
- Developed phased renewal budgets and implementation schedules

Why It Matters

- Port Milwaukee received a 10-year, investment-ready capital renewal strategy that supports new terminal development, strengthens shoreline protection, and aligns asset condition with long-term funding decisions.

Highlights Ramboll's ability to translate asset risk and climate uncertainty into a clear capital strategy, strengthening infrastructure resilience, enabling growth, and planning for future conditions.



Port Milwaukee: Restoring Ecosystems While Supporting Commerce

The Challenge

- Port Milwaukee seeks to balance environmental restoration, industrial activity, and waterfront redevelopment along an active working harbor.

Ramboll's Role

- Ramboll supporting planning, engineering, construction, and other environmental initiatives through design of a new Dredged Material Management Facility (DMMF).

Key Actions

- Advanced beneficial reuse and dredged material management solutions
- Supported Area of Concern (AOCO) remediation and delisting activities
- Integrated climate adaptation considerations into waterfront and capital asset planning
- Supported collaboration among regulatory agencies and stakeholders
- Connected environmental improvements to long-term economic growth

Why it Matters

- The DMMF project demonstrates that environmental stewardship and industrial development are mutually reinforcing objectives.

The most resilient ports invest simultaneously in infrastructure, ecosystems, and communities. Future ports will increasingly serve as environmental stewards and economic engines simultaneously.

Bright
ideas.
Sustainable
change.

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