



GOED
OMEGA-3

LCA Best Practice Guidance

Helping GOED create guidance and best
practices for LCAs in the Omega-3 industry

LRQA Advisory

April 2025



Background for this proposal



What is an LCA

A methodology for assessing environmental impacts associated with all the stages of the life cycle of a commercial product, process, or service

GOED's Challenge and Ask

- Several GOED members have conducted LCAs but have not published the results due to marketing considerations
- GOED seeks a consultant to create a standardized LCA framework for the Omega-3 industry
- GOED has invited LRQA to assist in developing this guidance document and to pilot it with select member companies

Benefits to a standardized LCA

- **Environmental Impact:** Identifies hotspots to reduce emissions, energy use, and waste
- **Resource Efficiency:** Optimizes materials, energy, and waste management
- **Sustainable Design:** Supports renewable, efficient, and recyclable product development
- **Supply Chain:** Improves sustainability and collaboration with suppliers
- **CSR & Reporting:** Demonstrates transparency and builds trust with stakeholders
- **Compliance & Risk:** Ensures regulatory alignment and mitigates risks
- **Performance & Investment:** Provides benchmarks and data for informed decisions
- **Industry Collaboration:** Drives collective progress on climate goals

Introducing LRQA

Key Facts

5,000+
technical experts

60,000+
clients globally

Operating in
150+
countries

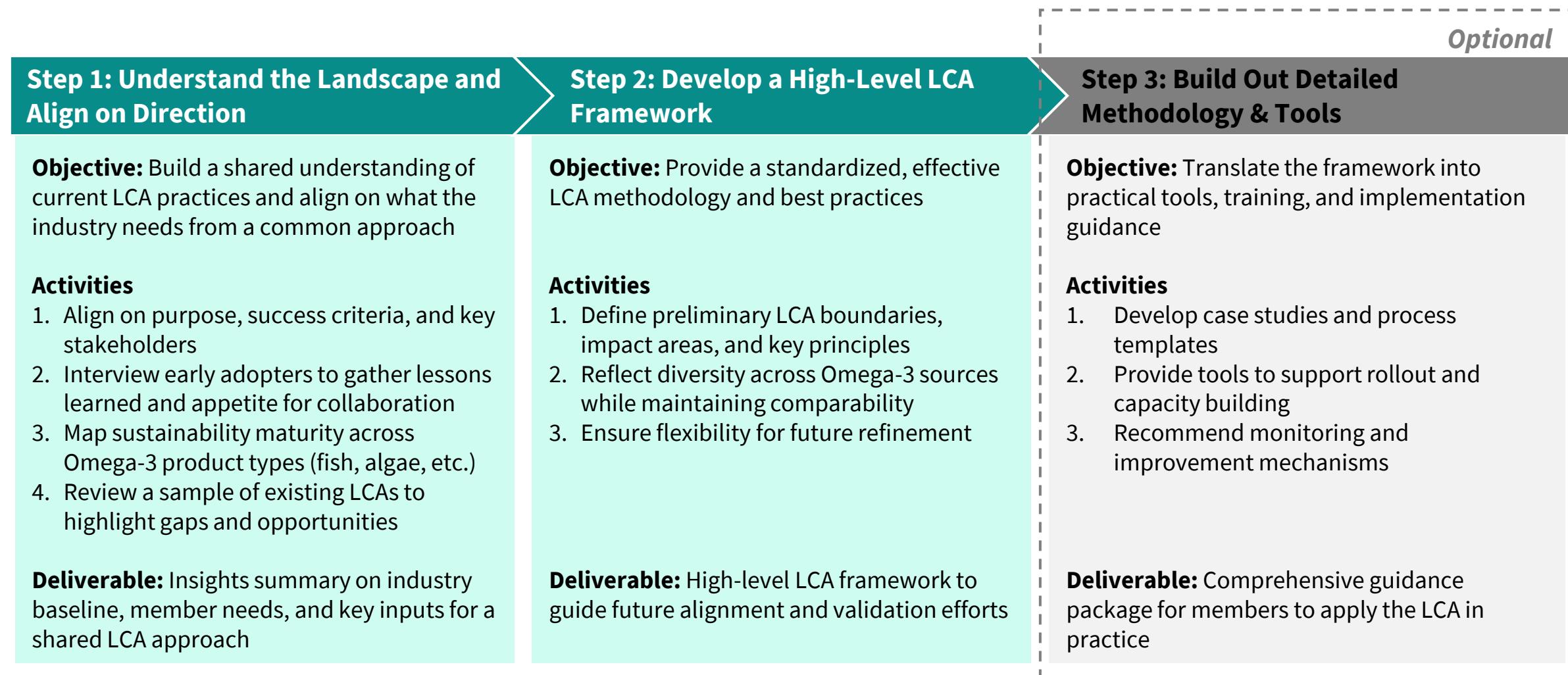
75m+
data points
collected In EiQ

LRQA is a leading global **assurance partner**, bringing together decades of unrivalled expertise in **assessment, advisory, inspection and cybersecurity services** – underpinned by data-driven insights – to help its clients navigate a **new era of risk**.

Operating in more than **160 countries** with a team of more than **6,000 people**, LRQA's award-winning **compliance, supply chain, cybersecurity and ESG specialists** help more than 61,000 clients across almost every industry to **anticipate, mitigate and manage risk** wherever they operate.

-  Assure assets and management systems
-  Strengthen cybersecurity maturity
-  Achieve product integrity
-  Navigate the energy transition and achieve net zero
-  Source responsibly

Project Plan



Step 1: Understand the Landscape and Align on Direction



Goal

- Build a shared understanding of current LCA practices and align on what the industry needs from a common approach



Key Activities

1. **Kickoff with GOED:** Confirm goals, scope, and member engagement, identify stakeholders (e.g., producers, suppliers)
2. **Interview early adopters:** Gather lessons learned, key challenges such as methodology and data uncertainty, and member willingness to collaborate
3. **Map current practices and value chains:** Assess maturity across Omega-3 types (e.g., fish, algae, seed/vegetable oil) and to better understand regional or operational variability
4. **Review existing LCAs:** Evaluate methodological differences and transparency levels, and data uncertainty. Review hotspots and discuss environmental impact categories applicable to the industry
5. **Identify enablers and barriers:** Pinpoint conditions for broader adoption of a shared approach, e.g., regulatory requirements or consumer awareness



Deliverable

- Insights summary covering industry baseline, key challenges, and design decision inputs for an LCA methodology including but not limited to system boundaries and life cycle stages across Omega 3 production routes, functional unit, geographical and temporal scope, types of impacts considered, co-product allocation rules, and data quality requirements



GOED and Member Input

- Support in identifying relevant GOED members to participate in interviews
- Share insights and documentations from available LCAs and previous sustainability studies

Step 2: Develop a High-Level LCA Framework



Goal

- Provide a standardized, effective LCA methodology and best practices



Key Activities

- Define core elements:** Outline LCA boundaries, impact areas, standardized functional unit(s), allocation guidelines when there are co-products (e.g., fishmeal), and data quality expectations across the supply chain
- Ensure cross-product relevance:** Reflect differences across Omega-3 sources while maintaining comparability
- Establish guiding principles:** Align with ISO standards (14040, 14044 and 14067) and practical industry needs
- Facilitate validation:** Host working sessions to gather feedback from GOED members
- Document open questions:** Capture areas for refinement in future phases



Deliverable

- Draft LCA framework summarizing design principles and guidance for future development and alignment on LCA practices across the Omega 3 sector allowing fair comparability across pathways and operations



GOED and Member Input

- Review, validate proposed framework, and provide feedback for the methodology

Step 3: Build Out Detailed Methodology & Tools (Optional)



Goal

- Translate the framework into practical tools, training, and detailed implementation guidance



Key Activities

1. **Develop case studies:** Highlight high-quality LCAs across product categories
2. **Create templates and tools:** Standardize data collection and impact assessment
3. **Draft implementation guidance:** Define clear steps and team roles
4. **Design monitoring mechanisms:** Support continuous improvement across members
5. **Explore recognition pathways:** Optional alignment with certification or best practice labeling



Deliverable

- Comprehensive LCA guidance package, including tools, training, and optional certification support



GOED and Member Input

- Identify members to pilot guidance
- Share feedback on rollout support needs and certification expectations