

Hackathon – Rule Book

Topic: Transforming the Sustainability by Design Excel Tool into a Web Application
Date: April 6 – 9 (1 Introductory Session + A few days to submit work)
Time: 09.00 – 15:00
Location: Online (Link to be shared after the registration period)

1. Participation Rules

- Team size: 1–4 members
- Teams must register with names as in the Passport or ID

2. Intellectual Property

- All code and material produced during the period are owned **by the Institute for Applied Material Flow Management (IfaS), Environmental Campus Birkenfeld, Germany**
- Teams grant **no rights** for modification and commercial use of the developed application
- Contributors acknowledged publicly

3. Mandatory Deliverables

GitHub repository with all code

- Dockerized application
- README:
 - Setup instructions
 - Architecture diagram
 - Tech stack description
 - AI usage description
- Live demo (~10 min)
- Post-hackathon roadmap

4. Submission Minimum Requirements

- Must run locally via Docker
- Must preserve Excel scoring logic and the content that is provided
- Must store data in a database
- Must include dashboards and exports
- Incomplete submissions are disqualified
 - After having minimum requirements, Uncertainty or sensitivity analysis can be integrated for selected topics/parameters to see variations and possibilities

5. Hackathon Schedule (Example 4-Day)

Day	Format	Focus	Mandatory
Day 1	Online (Live)	Kickoff, Architecture & Stage I	Yes
Day 2	Online (Short Session)	Q&A + Stage II & Dashboard Guidance	Partially
Day 3	Offline / Independent	Export, AI, Testing	No (Workday)
Day 4	Online (Live)	Final Demo & Evaluation	Yes

6. Judging Criteria

Category	Weight	Explanation
Functional completeness	30%	Implements all modules & formulas
Correct scoring logic	20%	Exact match to Excel rules
UX clarity	15%	Dashboard usability, clarity of results
Architecture quality	10%	Modular, Dockerized, maintainable
AI integration value	10%	Useful, explainable AI features
Scalability & performance	10%	Handles multiple evaluations, responsive
Documentation quality	5%	README, API docs, code clarity

7. Disqualification Rules

- Scoring logic altered
- Non-approved tech stack
- Missing Docker support
- Plagiarized code
- No working demo