Message from the Board
Petra Beris (Chair) & Bernardo Marques (Secretary)

Can you imagine that EWB-NL started 3 just years ago and has grown in that period to a community of over 450 registered engineers and a fully operational organisation to deliver Faster, Better, and More projects. Faster because we have streamlined the process from project request to execution, and made it more robust. Better because we were more on site with the local partners, and More as we conducted 12 projects, of which 7 were initiated in 2018.

We have also significantly grown the amount of supporting teams, so that project teams can rely on all the expertise within the organisation, and focus their efforts on delivering even better results. EWB-NL has grown to much more than an engineers-only organisation, with Graphic Designers, Web Developers, Writers, and many others playing an active role in the organisation, contributing greatly to the success of our technology- and engineering-based projects.

It is now also time to be more critical on where EWB-NL can contribute most value. Over the last three years we have grown significantly as an organisation and gathered considerable knowledge on how to deliver sustainable projects and solutions in developing communities. We see a huge opportunity to use that knowledge and skills to contribute towards growing a circular economy in Africa. Setting up local ventures to better utilise resources and promote a local economy will reduce CO2 emissions, create local jobs, and contribute to the Sustainable Development Goals. Moreover our volunteers can use the lessons learnt to also make their companies more sustainable. Would you like to join us in this mission? Join us and create Impact!
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EWB NL Organisation

EWB-NL

Senior Expert Group
Supervisory board
Advisory Board

Board

Projects
- Project request coordinator
- PEP coordinator
- QHSE/risk mgmt/legal
- Impact measurement

HR
- HR Team
- Happiness team
- Web/IT support
- Community managers

Community and Communication
- Events team
- Communication /PR team
- Graphic design team

Partnerships
- Partnerships team
- Design Challenge team

Business Impact Team

Portfolio managers

Project teams

EWB International
Donors (friends of EWB-NL)
Local Partners
Company Partners

EWB NL Organisation
EWB NL Organisation

EWB NL Board

Petra Beris
Bernardo Marques
Wessel Wikkerink
Alexandra Florea
Alejandro Hahn
Georgiana Stan
Tessa Vaendel

Supervisory Board

Maurits Ertsen
Roel Tersteeg
Tjeerd Dierckxsens

Senior Expert Group

Eugene Bongers
Joseph van Oudenhoven
Maarten Romijn
Piet Dijkshoorn
Rene van Dijk
2018 in Numbers

COMMUNITY OF 450+
100+ ACTIVE VOLUNTEERS
(40 JOINED IN 2018)

12 PROJECTS
(7 STARTED IN 2018)

750+ IMPACTED PEOPLE

31.000€+ RAISED
(7% INCREASE)

25+ PARTNERS

3.000+ SOCIAL MEDIA FOLLOWERS
(42% INCREASE)
Our Projects - Year THREE
Georgiana Stan (Board Member, Projects)

In 2018, building on what EWB-NL has achieved in our first two years of existence and the continuous learning curve that comes with that experience, we continued to effectuate and improve our processes in order to deliver Faster, Better, and More sustainable engineering-based projects with long lasting impact.

The network and reputation we have built lead to us receiving an unprecedented amount of project requests during this year. Consequently, we were able to start more projects than ever before, working on 12 projects in 10 different countries over the course of the year, impacting over 600 people in local communities.
Highlighted Project: Water4Sovu

In the small village of Sovu, in Northwest Rwanda, there is a high mortality rate due to a lack of clean water for drinking and sanitation. The sole water pipeline has long been in disrepair, so women and children often must travel far distances daily to fetch water. Families also rely on springs and surface water, which can be contaminated.

EWB-NL’s team has been working with local partners to improve access to clean water and sanitation in the region. After an initial feasibility study, the team decided to direct their initial focus on repairing the existing water pipeline.

The greatest value that Engineers without Borders Netherlands brings to their Sovu partners isn’t high-level engineering. In fact, the solutions for fixing the pipeline and providing reliable water access were very simple.

“The greatest success of this project to date is that the old existing 12 kilometer pipeline is now repaired,” says EWB Netherlands engineer Alfred Mutsaars. “It’s maintained now by trained local plumbers who are paid by part of the collected fee of the drinking water used and paid per jerrycans by the locals taken from the taps in the rural villages.”
Highlighted Project: Schools of the Future - Mozambique

Schools of the Future has always been a different project within EWB-NL: it runs by editions, each adjusted to its audience and multiple teams can run it in parallel. The concept was simple: to use hands-on workshops to spark children’s interest for technology and science in developing countries.

The first edition of SoFt ran in Mozambique in 2017 and was well received by most students. Our pilot reached more than 150 students and allowed us to learn a lot about our audiences.

Project Running

MOZAMBIQUE

Education Project in Maputo

The project’s second edition culminated with a visit to Mozambique in June 2018 – the new toolboxes (calculator, piano, and radio) were focused on the schools and grades that can benefit the most from it.

This is just the beginning of a long and ambitious project: this project is expected to require between 6 and 10 years to be fully developed and transferred to the local community.

The plan is to take the lessons learned from this project and export it to other countries. The SoFt Uganda project has started in 2018 to continue to inspire children in developing countries.
Highlighted Project: Kriterion Monrovia

For more than a decade, the Kriterion Monrovia team has travelled their country of Liberia, organising movie screenings in local communities. The students noticed that the novelty and excitement of films relaxed and inspired people.

The EWB-NL team delivered the concept design for Liberia’s first art-house cinema. The building will be constructed close to the national university, a location fitting for a student run project. Emilija and Joost also visited Monrovia to study the building site, hold workshops with stakeholders, and learn about local building techniques.

The First Art-House Cinema In Liberia

The students envisioned a cinema which could also serve as a cultural hub, with space for art, music, debate and social gathering in their capital city. Additionally, young Liberians could fund their studies and gain experience by working in the cinema.

“The building will be the ‘stage’ for cultural exchange within the city, something that they have been working on for many years now and can be proud of once it is fully running. The perseverance and persistent motivation of the Kriterion Monrovia team, to chase their dream, is something that we can all learn a lot from.”
Our Volunteers
Alejandro Hahn (Board Member, People and Projects)

Who are our volunteers?

At EWB, we are much more than engineers. Our volunteers bring a wide variety of skills and competences, based on the unique background of each of our volunteers. The engineering-based project teams are supported from different angles by specialists in different disciplines, such as professional lawyers, experts in communication, HSE consultants, among many others.

EWB-NL counts now with volunteers from more than 15 different nationalities, each of them adding their distinctive characteristics to our diverse working environment.

Together we all share a common goal: improving the wellbeing of people in developing countries through technology-based projects.

By the end of 2018 EWB-NL counted with more than 100 active volunteers, in projects and/or activities related to our work!
Our Volunteers
In their own words

“With the years money and material became less important to me. EWB NL is my choice to support with my time and experience for a better world.”

Paul Meester · Recruiter at EWB-NL · Senior Corporate Recruiter for SBM Offshore

“Guess what? You don't need to have an engineering degree to be part of EWB-NL. I love that I am given this wonderful opportunity to facilitate a communication platform for the genius minds who come together at our events. As "an engineer at heart", I enjoy inspiring the community of EWB volunteers, sustainable ideas are born here and implemented in the places this planet needs most!”

Irina Shleikina · Events Team Member at EWB-NL · Project Manager for Cummins Inc.

“Sustainable ideas are born here and implemented in the places this planet needs most!”
Our Volunteers
In their own words

“EWB is a very stimulating community with people from all over the world! It tries to inspire the creative minds in all of us, not only their volunteers, but also by challenging our partners and stakeholders to achieve the best possible outcome. It feels like a big and diverse family!”

Rolf Swuste · Project Manager at EWB-NL · Project Engineer for Fontijne Presses

“The project Schools of the Future (SoFt) opened my eyes to the tough reality of the Mozambican education system and living conditions of high-school students and their communities. With this project, I believe EWB is making a strong and sustainable impact to directly and indirectly improve the life of many Mozambicans by fostering and promoting Engineering.”

Luís Oliveira · Project Team Member at EWB-NL · CEO at AIRCISION

“EWB feels like a big and diverse family!”
Our Community - Year THREE

Tessa Vaendel (Board Member Community & Communication) and Bernardo Marques (Eindhoven Community Manager)

Our volunteers are at the heart of our organisation. Connecting them as one community, where they can inspire and learn from, is something we continuously work towards. **Our events are our main vehicle for developing a sense of community in our volunteers.**

In 2018 we have started our dedicated Eindhoven community team and hosted our first Eindhoven edition of our Meet & Greet.

**Overall. more than 500 people attended the 13 events we hosted in 2018.**

The Design Challenge and Design Lab events that we hosted in 2018, allowed us to tap into the pool of talent of our volunteers to tackle problems affecting developing communities. The work developed at our “hackaton”-like events was continued in their own projects.

Check our events at [https://www.ewbnl.org/events/](https://www.ewbnl.org/events/)
Our Partnerships
Alexandra Florea (Board Member, Partnerships)

Our strategic partners have a major role in enabling our projects, by contributing both financially and with the skills, knowledge, and enthusiasm of their employees. In return, employees are given the opportunity to develop leadership and entrepreneurial skills through challenging projects and experience the fulfilment that comes with being part of improving well-being in developing countries.

In 2018 we invested heavily in Partnerships, expanding our team to 5 volunteers. With this new team we have defined a new strategy for building long term relationships with partners, and set ambitious but realistic goals for 2019 to enable Faster, Better, and More projects.

If you are an individual or company who would like to create a sustainable change please contact us: partnerships@ewbnl.org

“Our strategic partners have a major role in enabling our projects, by contributing both financially and with the skills, knowledge, and enthusiasm of their employees.”
## Financials

Wessel Wikkerink (Treasurer)

Find our detailed Financial Report on our webpage!

In 2018 we managed to secure funds to execute our running projects and to create cash reserves needed to kick off new ones, until they can run with their own budgets from donations.

In 2019 we will use these reserves to support the start of new projects, making us more agile by smoothing this serious starting constraint that would routinely introduce uncertainty on timelines and effectiveness.

<table>
<thead>
<tr>
<th>REVENUE (EUR)</th>
<th>EXPENSES (EUR)</th>
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<td>Donations</td>
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<td>Project Donations*</td>
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<td>*18.950,40 are earmarked for specific projects</td>
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<tr>
<td>Total revenue</td>
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<td>Total costs</td>
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THANK YOU!

We thank our volunteers, partners, donors and the EWB-NL community for helping us help and making possible the dream of working for a better world through technology!

In 2019 we’ll continue our efforts towards doing Better, Faster and More projects, on improving wellbeing and on how to measure our impact!

Sign up to our newsletter to be kept up-to-date with our work and events: https://tinyurl.com/EWBNewsletter
Appendix

This appendix describes the guidelines we use in our projects
Project Phases

1. Proposal
2. Plan
3. Execution
4. Finish

Technical Ownership:
- EWB NL
- LOCAL PARTNER/COMMUNITY

Time:
- Proposal
- Plan
- Execution
- Finish

 EWBNL
 LOCAL PARTNER/COMMUNITY
How we work

**Engineering Based**
All projects EWB engages in require an engineering base. This allows us to utilize our strengths and our skills to the best of our abilities. With our partners we will achieve healthy and sustainable results that can make a change.

**Locally Requested**
Any local entrepreneurs with an idea or a passion can request to partner with us. Together we determine the feasibility of a project and progress to the realization of a dream. The result shall be owned and operated by the requesting party.

**No Competition**
In the execution of our projects EWB is determined not to compete with existing engineering firms. Knowledge provided by or work performed by local companies is beneficial for local economic and social structures. If this is not present, EWB can help.

**Level 3 Aid**
At EWB we believe in local entrepreneurship. Level 3 aid implies investing in ventures that can boost local development.

**Sustainable**
Our projects adhere to the ‘FIETS’ criteria. For each project the Financial, Institutional, Environmental, Technological and Social elements are considered.

“If change isn’t systemic it isn’t change at all”
- GEORGE ROTER
How we work - Key design factors

User Centered Design
The starting point of all systems and solutions are the local users. What are their needs and wants? Together with the user we work on the challenging interface between their requirements and affordability of the design.

Sustainable Design
For sustainable design we work according to the FIETS criteria; to ensure long term Financial, Institutional, Environmental, Technological and Social Sustainability.

Integrated Project Phases
Our design cycle starts with an understanding of operation and maintenance in a local context, followed by the possibilities of local construction, all together leading to the starting points of design.

Safe Design
Not because we have to but because we want to. We feel responsible for the safety of all people working on our projects and that benefiting from it. We deliver safe designs and ensure a safe construction.

“If change isn’t systemic it isn’t change at all”
- GEORGE ROTER
How we work - Integrated Project Phases

Decisions taken during design determine construction, operation & maintenance

- **Design**
  - User Centered
  - Sense & Simplicity
  - Safety
  - Constructability
  - Local ownership of design

- **Construction**
  - Local availability of resources
  - Transport of parts
  - Import, taxes
  - Quality
  - Safe Construction
  - Training

- **Operation & Maintenance**
  - Who is going to operate this
  - Training
  - Spare parts
  - Online monitoring
  - Local workshops
  - Procedures
How we work - Sustainability

Our projects adhere to the ‘FIETS’ criteria, which means that for each project the Financial, Institutional, Environmental, Technological and Social elements are considered.

Financial sustainability
All projects EWB engages in require an engineering base. This allows us to utilize our strengths and our skills to the best of our abilities. With our partners we will achieve healthy and sustainable results that can make a change.

Institutional sustainability
Any local entrepreneurs with an idea or a passion can request to partner with us. Together we determine the feasibility of a project and progress to the realization of a dream. The result shall be owned and operated by the requesting party.

Technical sustainability
Our designs are often challenged to be extremely low maintenance with a long lifetime. Further they are based on sustainable concepts, inspired by the circular economy. Water, waste and energy consumption are minimized, where possible energy will be used from renewable resources.

Social sustainability
Our projects improve wellbeing in communities and are executed and owned by the local stakeholders. In this way local ownership is guaranteed and the project has positive social impact. To ensure social sustainability a Social Impact Assessment is part of projects.

In the execution of our projects EWB is determined not to compete with existing engineering firms. Knowledge provided by or work performed by local companies is beneficial for local economic and social structures. If this is not present, EWB can help.

Environmental sustainability
We strive to a positive environmental impact and keep any negative impacts as low as possible or compensate for that. For example environmental impact assessments can be part of our project scope.
How we work - Sustainability

... and the work at EWB NL aligns with the UN Sustainable Development Goals