



How to align your Fab Lab / Makerspace with the U.N. Sustainable Development Goals (SDGs)

Working Group "Fab Labs and UN Sustainable Development Goals (SDGs)"

FAB16 – 16th International Fab Lab ONLINE Conference, Montréal, Canada, August 9-15, 2021

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Agenda



A. Synopsis

B. Prepare your workshop

C. Run your workshop

D. Consolidate your results

1. Welcome and personal introduction

2. Explore the Sustainable Development Goals (SDGs)

3. Determine the SDG Profile for your fab lab

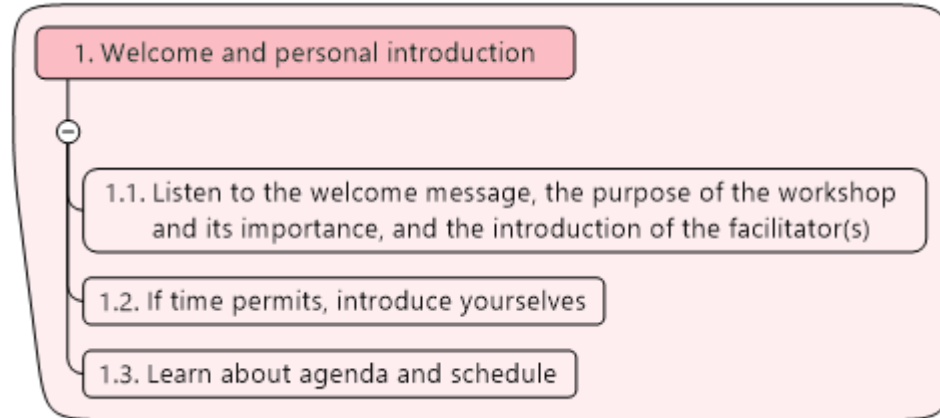
4. Plan a better match with your SDG Profile

5. Identify new opportunities for the Fab Lab Network

6. Evaluation and follow-up

See the accompanying manual for the fab lab manager:
<http://bit.ly/fab14-sdgs-fablabmanager>

1. Welcome and personal introduction



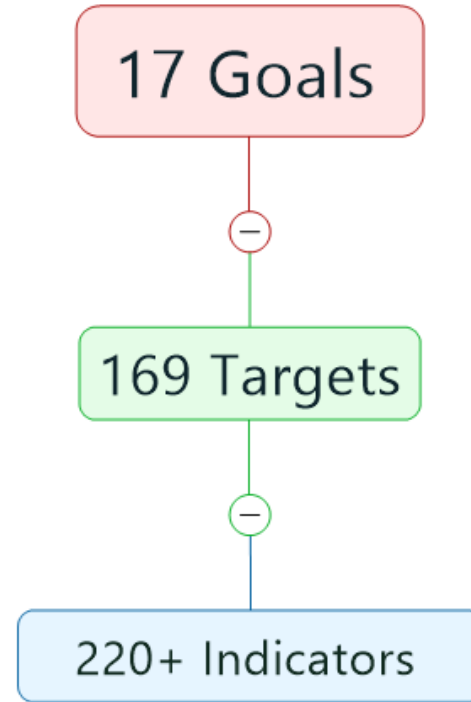
2. Explore the Sustainable Development Goals (SDGs)



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Sustainable Development Goals:

- Worldwide human Agenda 2030
 - 2016-2030
 - All countries (193)
 - All aspects of life
 - At all levels
- Many programs, projects and activities; unlocks new resources
- Paris Climate Agreement included
- “Leave No One Behind” (LNOB)







2. Explore the Sustainable Development Goals (SDGs)

Why are SDGs important for fablabs / makerspaces?

- SDGs help focus our activities
- SDG help clarify our impact
- SDG is internal (fab lab network) and external (Rest of World) frame of reference

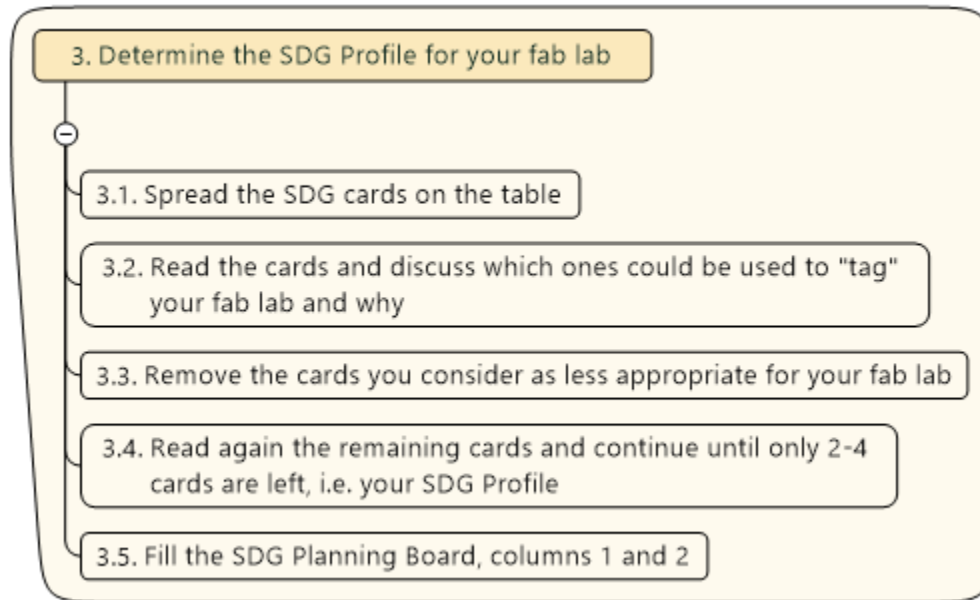
How can fablabs / makerspaces start?

- Set-up SDG Profile of 2-4 SDGs that best suit your fablab
 - Eg SDG-04-08-09-17
- Align your policy with your profile
- Share your SDG profile
- Insight in all SDG profiles strengthens our network
 - Sister labs, twin labs?
- A stronger network makes us a more interesting partner

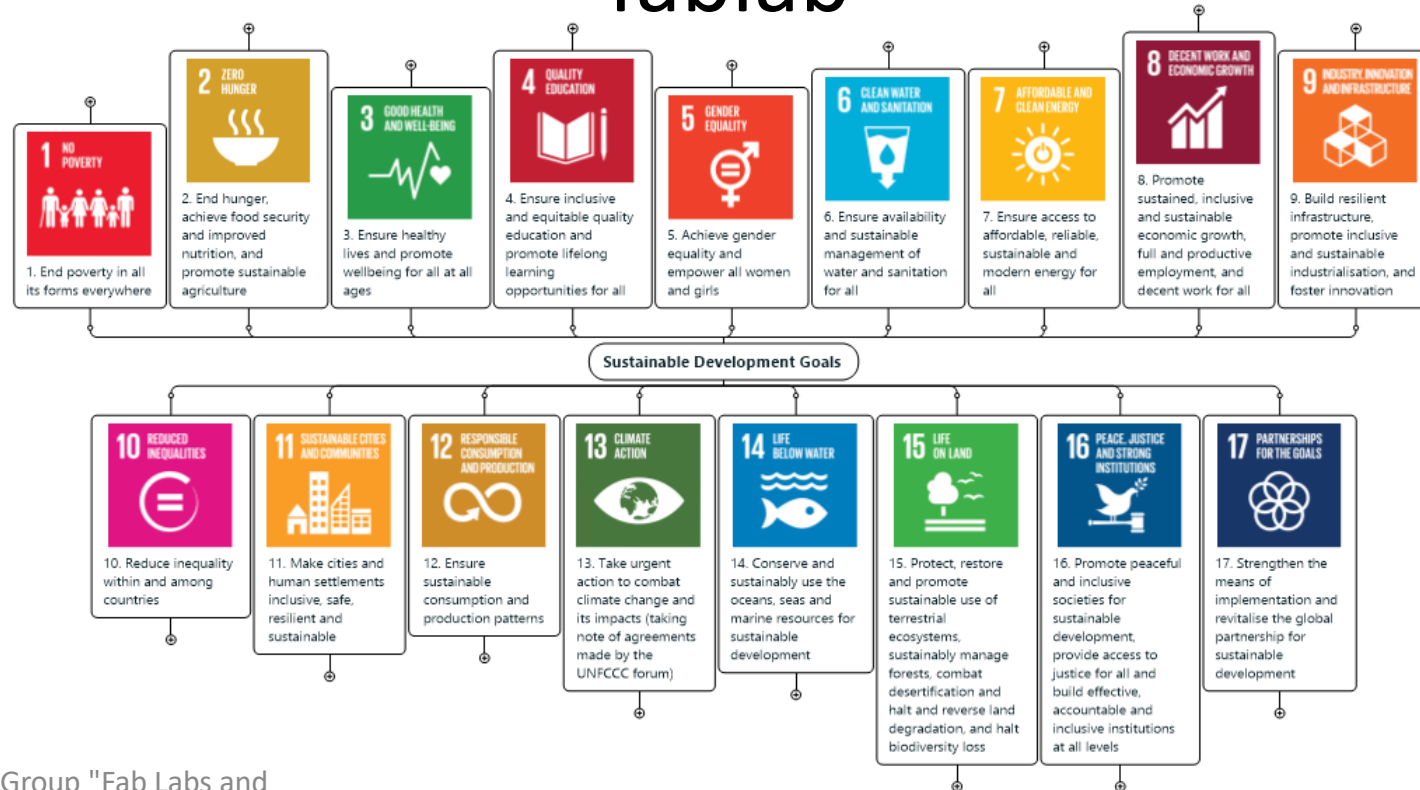
Quick tour through the 17 goals (separate file)

INTERMEZZO






3. Determine the SDG Profile for your fablab



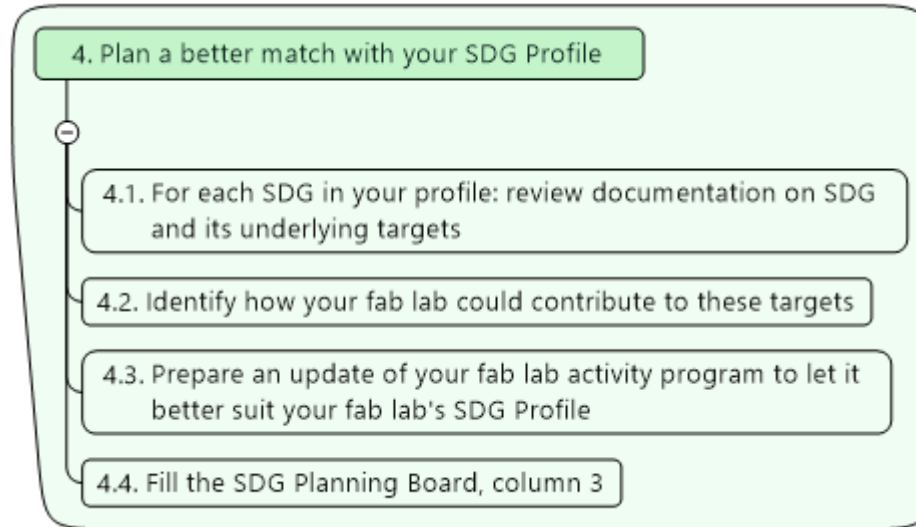
3. Determine the SDG Profile for your fablab



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| | |
|---|---|
| <p>SDG Planning Board</p> <p>EXAMPLE</p> <p>FAB LAB XXX</p> |  <p>Determine the SDG-profile for your fab lab</p> |
| <p>4 QUALITY EDUCATION</p>  | <p>4. Ensure inclusive and equitable quality education and promote lifelong learning opportunities for all</p> <p>Many activities in this field: information and demonstration to general public at events, workshops for different age groups, courses for 2D design and laser cutting, 3D design and 3D printing, fab academy, etc.</p> |
| <p>8 DECENT WORK AND ECONOMIC GROWTH</p>  | <p>8. Promote sustained, inclusive and sustainable economic growth, full and productive employment and decent work for all</p> <p>Two staff members with expertise in organizational health and safety, not only important internally, but we include it in many projects as well.</p> |
| <p>9 INDUSTRY, INNOVATION AND INFRASTRUCTURE</p>  | <p>9. Build resilient infrastructure, promote inclusive and sustainable industrialisation, and foster innovation</p> <p>Especially young professionals and technopreneurs: all is about new products and services, especially software and connectivity is very popular in our lab</p> |
| <p>17 PARTNERSHIPS FOR THE GOALS</p>  | <p>17. Strengthen the means of implementation and revitalise the global partnership for sustainable development</p> <p>Partnerships with local organizations, especially the support chain for new startups, active member of fab region and global network.</p> |

4. Plan a better match with your SDG Profile









4. Plan a better match with your SDG Profile

- Look at your SDG Profile's underlying targets
- Browse the texts for appealing issues
- Use our tool, an interactive and searchable mindmap
 - English: <https://bit.ly/fab-sdgs-en>
 - Français: <https://bit.ly/fab-sdgs-fr>
 - Español: <https://bit.ly/fab-sdgs-es>
 - Nederlands: <https://bit.ly/fab-sdgs-nl>

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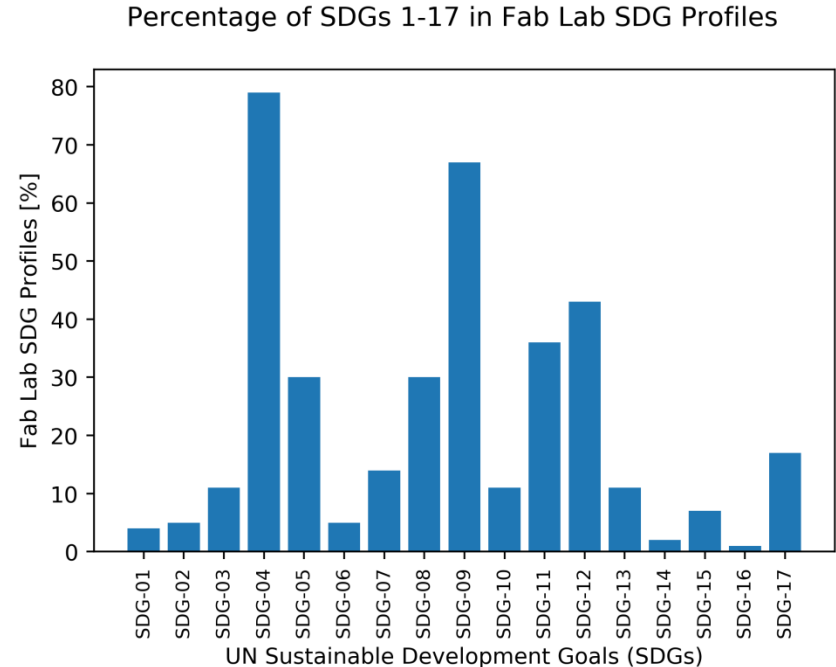
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| SDG Planning Board EXAMPLE FAB LAB XXX |  Determine the SDG-profile for your fab lab |  Plan a better match with your SDG profile | |
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| 8 DECENT WORK AND ECONOMIC GROWTH  | 8. Promote sustained, inclusive and sustainable economic growth, full and productive employment and decent work for all Two staff members with expertise in organizational health and safety, not only important internally, but we include it in many projects as well. | NEW on our agenda: X develop a practical toolkit for safety ambassadors | |
| 9 INDUSTRY, INNOVATION AND INFRASTRUCTURE  | 9. Build resilient infrastructure, promote inclusive and sustainable industrialisation, and foster innovation Especially young professionals and technopreneurs: all is about new products and services, especially software and connectivity is very popular in our lab | NEW on our agenda: X Build LoRaWAN in our place and use it for citizen sensing | |
| 17 PARTNERSHIPS FOR THE GOALS  | 17. Strengthen the means of implementation and revitalise the global partnership for sustainable development Partnerships with local organizations, especially the support chain for new startups, active member of fab region and global network. | NEW on our agenda: X active contribution to fab region network X finally run our own fab academy | |

5. Identify new opportunities for the Fab Lab Network



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- 224 Fab Labs have SDG profile
- Data has been visualised in interactive map with filters etc
 - <https://bit.ly/fablist-sdgs>
- Check which fablabs have an (almost) identical profile to your lab
- See bar chart (right pabel) for preferences per SDG



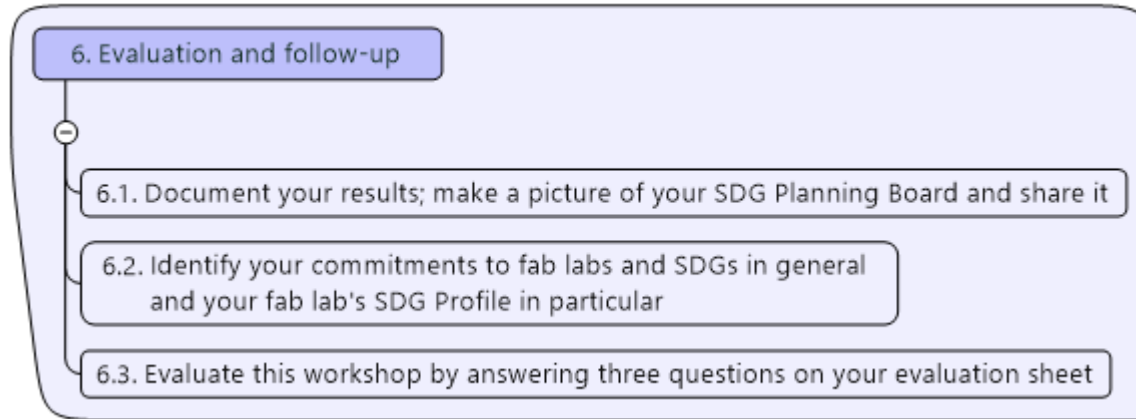
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| EXAMPLE | | Plan a better match with your SDG profile | |
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| | | NEW on our agenda: X Adults with almost no education, bring them back to learning processes, empower them for new job opportunities | |
| | | Documenting our education activities and materials and actively offering them to our neighbour fab labs. | |
| | | NEW on our agenda: X develop a practical toolkit for safety ambassadors | |
| | | Searching other fab labs interested in decent work and trying to create a handbook on that topic together. | |
| | | NEW on our agenda: X Build LoRaWAN in our place and use it for citizen sensing | |
| | | Replicating software projects from CBA and see how we could apply them locally | |
| | | NEW on our agenda: X active contribution to fab region network X finally run our own fab academy | |
| | | Looking for our sister fab labs, communicating with them and planning at least one common activity this year | |

6. Evaluation and follow-up



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Are you ready to submit your SDG profile?

- <https://bit.ly/fab14-sdgs-form>

Please, allow 2 working days and your profile will be added to our global map of SDG profiles:

- <https://bit.ly/fablist-sdgs>

6. Evaluation and follow-up

Three questions:

1. What went well?
2. What could be better?
3. What suggestions do you have further?

Please, fill the online evaluation form;

<https://bit.ly/fab16-evaluation>

Resources

- FAB16 Workshops Portal Page: <https://bit.ly/fab16-sdgs>
- Git repository with most recent version of all workshop materials: <https://gitlab.fabcloud.org/fl-management/fl-sdgs/sdg-workshop>
- Manual for the fab lab manager: <https://bit.ly/fab14-sdgs-fablabmanager>
- Interactive mindmap of SDGs and targets:
 - English: <https://bit.ly/fab-sdgs-en>
 - Français: <https://bit.ly/fab-sdgs-fr>
 - Español: <https://bit.ly/fab-sdgs-es>
 - Nederlands: <https://bit.ly/fab-sdgs-nl>
- Submission form for Fab Lab SDG Profile: <https://bit.ly/fab14-sdgs-form>
- FAB16 workshop evaluation form: <https://bit.ly/fab16-evaluation>
- UN Sustainable Development Goals, website in Arab, Chinese, English, Russian and Spanish
 - <http://www.un.org/sustainabledevelopment/sustainable-development-goals/>
 - Other languages: <https://trello.com/b/SjP68HUc/sdg-icons-in-languages>
- Logo's and pictures © United Nations

Thank you!

Working Group “Fab Labs and UN Sustainable Development Goals (SDGs)”

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