



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

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# Agenda



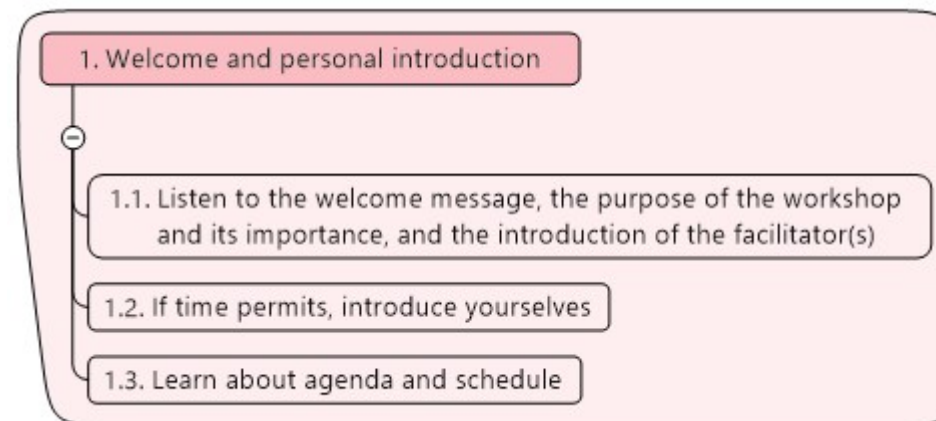
See the accompanying manual for the fab lab manager:

<http://bit.ly/fab14-sdgs-fablabmanager>

# Schedule

Schedules for a regular (4 hour) session and a condensed (2 hour) session	Regular session [4 hours = 240 minutes]	Condensed session [2 hours = 120 minutes]
1. Welcome and personal introduction	30'	10'
2. Explore the Sustainable Development Goals (SDGs)	45'	20'
3. Determine the SDG Profile for your fab lab	45'	30
4. Plan a better match with your SDG Profile	45'	30'
5. Identify new opportunities for the Fab Lab Network	45'	20'
6. Evaluation and follow-up	30'	10'
Total time	240'	120'

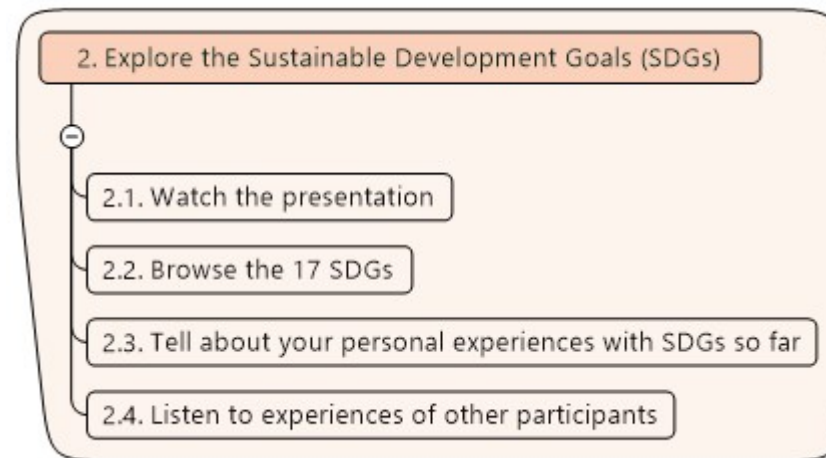
# 1. Welcome and personal introduction



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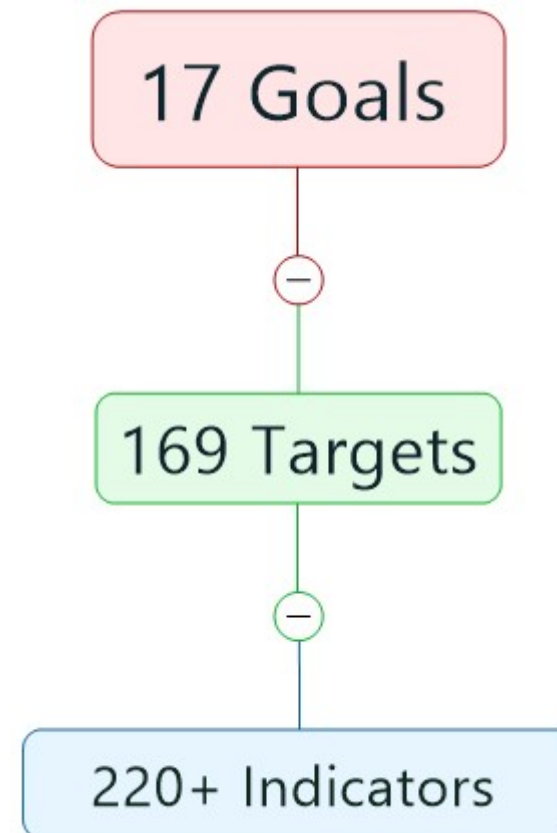


## 2. Explore the Sustainable Development Goals (SDGs)



## 2. Explore the Sustainable Development Goals (SDGs)

- 8 Millennium Goals
  - 2000-2015
  - Developing countries only
- 17 Sustainable Development Goals
  - 2016-2030
  - All countries
- Developed via worldwide bottom-up process
- Paris Climate Agreement included
- “Leave no one behind”



## 2. Explore the Sustainable Development Goals (SDGs)

### Sustainable Development Goals:

- Worldwide human agenda
- All aspects of life
- At all levels
- Many programs, projects and activities
- Unlocks new resources

### Fab labs / Makerspaces:

- SDGs help focus our activities
- SDG profile clarifies our impact
- Insight in all SDG profiles strengthens our network
- A stronger network makes us a more interesting partner



# Goal 1: End poverty in all its forms everywhere



## Goal 2: End hunger, achieve food security and improved nutrition, and promote sustainable agriculture





# Goal 3: Ensure healthy lives and promote wellbeing for all at all ages



# Goal 4: Ensure inclusive and equitable quality education and promote lifelong learning opportunities for all





# Goal 5: Achieve gender equality and empower all women and girls



# Goal 6: Ensure availability and sustainable management of water and sanitation for all



6 CLEAN WATER  
AND SANITATION



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



# Goal 7: Ensure access to affordable, reliable, sustainable and modern energy for all



# Goal 8: Promote sustained, inclusive and sustainable economic growth, full and productive employment, and decent work for all





# Goal 9: Build resilient infrastructure, promote inclusive and sustainable industrialisation, and foster innovation





# Goal 10: Reduce inequality within and among countries



10 REDUCED  
INEQUALITIES



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

# Goal 11: Make cities and human settlements inclusive, safe, resilient and sustainable



11 SUSTAINABLE CITIES  
AND COMMUNITIES





# Goal 12: Ensure sustainable consumption and production patterns



# Goal 13: Take urgent action to combat climate change and its impacts (taking note of agreements made by the UNFCCC forum)





# Goal 14: Conserve and sustainably use the oceans, seas and marine resources for sustainable development



# Goal 15: Protect, restore and promote sustainable use of terrestrial ecosystems, sustainably manage forests, combat desertification and halt and reverse land degradation, and halt biodiversity loss





# Goal 16: Promote peaceful and inclusive societies for sustainable development, provide access to justice for all and build effective, accountable and inclusive institutions at all levels

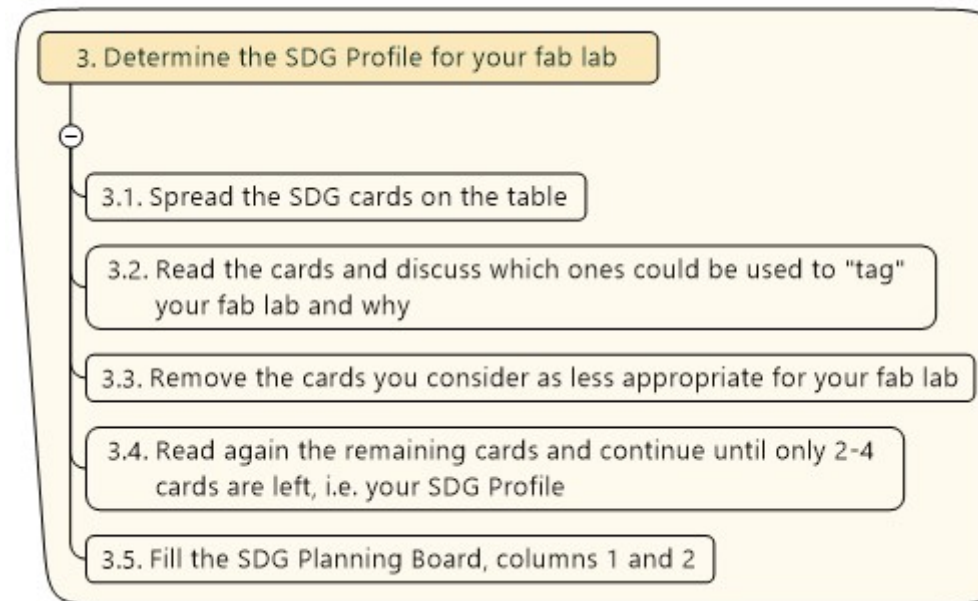




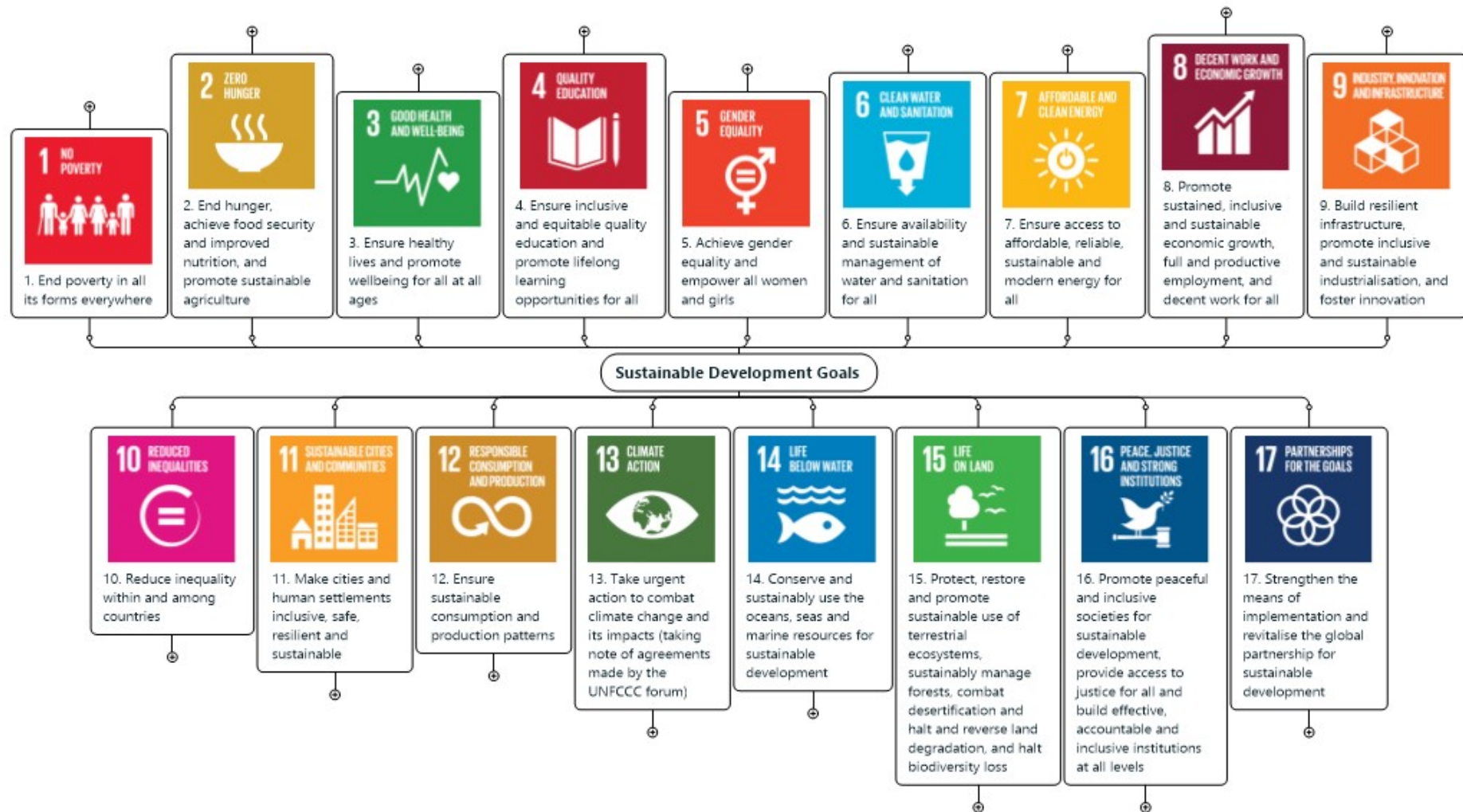
# Goal 17: Strengthen the means of implementation and revitalise the global partnership for sustainable development








### 3. Determine the SDG Profile for your fab lab



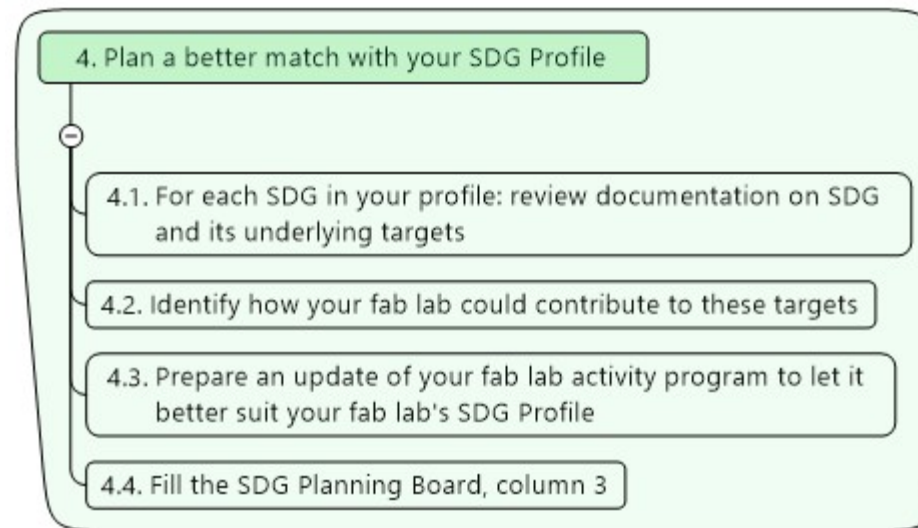
# 3. Determine the SDG Profile for your fab lab



# 3. Determine the SDG Profile for your fab lab

<p>SDG Planning Board</p> <p>EXAMPLE</p> <p>FAB LAB XXX</p>	 <p>Determine the SDG-profile for your fab lab</p>
<p><b>4 QUALITY EDUCATION</b></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><b>8 DECENT WORK AND ECONOMIC GROWTH</b></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><b>9 INDUSTRY, INNOVATION AND INFRASTRUCTURE</b></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><b>17 PARTNERSHIPS FOR THE GOALS</b></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




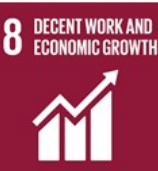






# 4. Plan a better match with your SDG Profile



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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	
 <b>4 QUALITY EDUCATION</b> 4. Ensure inclusive and equitable quality education and promote lifelong learning opportunities for all	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.		NEW on our agenda: X Adults with almost no education, bring them back to learning processes, empower them for new job opportunities	
 <b>8 DECENT WORK AND ECONOMIC GROWTH</b> 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	
 <b>9 INDUSTRY, INNOVATION AND INFRASTRUCTURE</b> 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	
 <b>17 PARTNERSHIPS FOR THE GOALS</b> 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



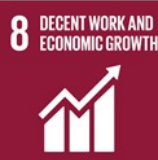








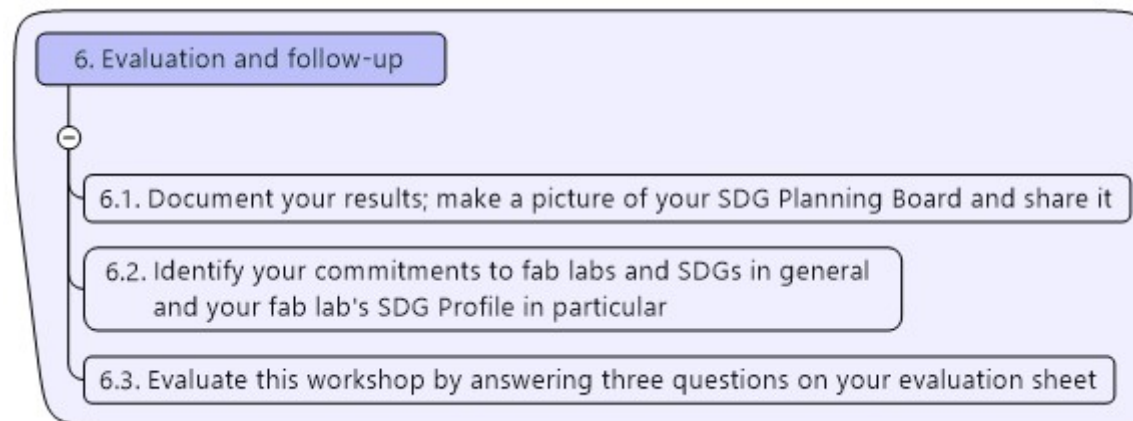
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SDG Planning Board			
EXAMPLE			
FAB LAB XXX			
			Determine the SDG-profile for your fab lab
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	8. Promote sustained, inclusive and sustainable economic growth, full and productive employment, and 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.	
	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	
	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.	
			Plan a better match with your SDG profile
			Identify new opportunities for the fab lab network
		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



# 6. Evaluation and follow-up

Three questions:

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

# Resources

- How to align your Fab Lab / Makerspace with the U.N. Sustainable Development Goals (SDGs)
  - Manual for the fab lab manager – <http://bit.ly/fab14-sdgs-fablabmanager>
  - Presentation during workshop – <http://bit.ly/fab14-sdgs-presentation>
  - Interactive mindmap on SDGs – <http://bit.ly/fab14-sdgs-mindmap>
  - Workshop materials – <http://bit.ly/fab14-sdgs-kit>
  - Fab Lab SDG Profile Registration Form – <http://bit.ly/fab14-sdgs-form>
- UN Sustainable Development Goals, website in Arab, Chinese, English, Russian and Spanish
  - <http://www.un.org/sustainabledevelopment/sustainable-development-goals/>
- Logo's and pictures © United Nations

# Thank you!

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

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