Build for Continuity

- Fully self-sustaining
- Strategy for self-sustainabilty developed
- Potential for self-sustainability identified
- Needs external support
- Not self-sustaining at all

Integrate local knowledge

- Integration of both local knowledge & practices
- Some integration of local knowledge & materials
- Just one of the methods
- Some local input
- None at all reinventing the wheels

Share how you make

- None at all
- At least some pictures
- +Description
- Schematics or STL files
- Some instructions
- Detailed instructions +Schematics +License

Include ecosystem services

- Toxic
- None at all
- Giving back less than consumes
- Giving back as much as consumed
- Giving back more than consumed

Make things that make sense

- Just for fun
- Using something fun for something fundamental
- Fundamental, can also be fun

CRITICAL MAKING REFLECTION TOOL

Make Things that Make Sense

GUIDING QUESTIONS

What is the nature of the problem you are tackling?

Is your solution going to have a fundamental impact - or is it a rather for fun project - or both?

Do you build on what other people shared? Do you Create, Contribute or Fork?

EXAMPLE

3D printing Yoda heads is fun and can have a fundamental impact when done to teach 3D printing. 3D printing prostheses is fundamental.

Include Ecosystem Services

GUIDING QUESTIONS

How much do you give back in relation to how much you consume?

With how much respect do you treat natural resources?

EXAMPLE

A makerspace which sources its materials from the natural environment around it and recycles / upcycles waste (e.g. plastic, or e-waste) around it, gives back more than it uses.

Integrate Local Knowledge

GUIDING QUESTIONS

How much do you integrate local knowledge?

Do you co-design with target users, or are you target user yourself?

How much do you integrate local materials?

EXAMPLE

A makerspace aims to fully integrate local practices of collaboration in how it designs its projects and is consciously exchanging with and learning from the local community.

Build to be Self-Sustainable

GUIDING QUESTIONS

How much do you depend on external support?

How clear is your strategy for becoming self-sustainable to your community?

EXAMPLE

A makerspace with a proven working business model is fully self-sustaining. A group of makers who are just starting to create a community is not financially self-sustaining at all. Most will find themselves somewhere in between.

Share How You Make

GUIDING QUESTIONS

How much attention do you pay to sharing?

Could others replicate and remix your makes based on your documentation?

EXAMPLE

A makerspace fulfills all requirements of the CERN or DIN license. Along with guidelines, designs, and necessary files, the IP rules are also shared on an appropriate platform, and creators are available to contact.

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Pathways

Pathways

GUIDING QUESTIONS

EXAMPLE

3D printing Yoda heads is fun and can have a fundamental impact when done to teach 3D printing. 3D printing prosteheses is fundamental.

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Context

Context

GUIDING QUESTIONS

EXAMPLE

Our digital innovation ecosystem is growing quickly

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Framings

Framings

GUIDING QUESTIONS

EXAMPLE:

We frame making as a means to include local grassroots in global digital innovation

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Spaces & Strategies

Spaces & Strategies

GUIDING QUESTIONS

EXAMPLE:

We want grassroots communities to benefit from ecosystem growth