רפמלונופאו co-create better can be reimagined to

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others, and the planet. caring for ourselves, standard of Living while to explore how to achieve a decent willing to participate in the debates,

From there, we invite everybody suffer (intersectionality). grechiminations we ges we carry and the בצבמפרוצף בחב שרועורפי

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L.a ga

. some hackathon tips & feedbacks Here, we present: • 9 concepts for Low-Tech teaching LUGITZCLA I MICH EVERYONE! It's about time we discuss SUƏZ retlects on such questions! 18 an approach that LOW-TECH on this planet? us to flourish collectively what would be sufficient for Finally wondering: forever? ash pue their manutacturing Can We sustain Are they truly useful? phone or bike, wondering: purpose in life? Your microwave, smart-What is their

Visit https://zenodo.org/communities/lttsustain/

tor more ressources!

Have you ever stared at



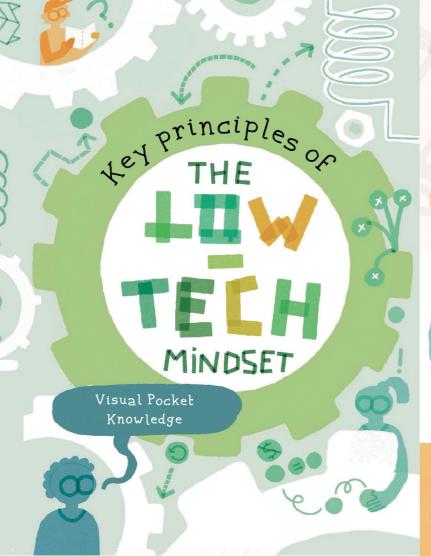
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LT4sustain https://lt4.sustain.eu/

Designed by Tuliette Patissier







Putting it into practice:

A LOW-TECH HACKATHON



The low-tech hackathon aims to co-create solutions to local needs, by training students and involving locals in the process.

Activities during the hackathon should be aligned with the participants' competences and profiles previously established according to the objectives defined.



Teams are formed making sure there is a balance in gender, academic background and languages spoken.

A key is to reveal the "territoire's needs" by meeting local actors, conducting interviews and analyzing the data. This enables us to generate a list of topics (ie.: energy, transportation, culture, food, housing...), to propose as a guiding structure for the generation of solutions.



Building a network of local partners is essential to promote trust and spark collaborations for generating activities, sharing spaces (workshop) and materials (ressourcerie).



Activities should be varied in duration and complexity.

briefings

cohesion Learning sessions sessions

working sessions motivational sessions

Free time

To evaluate the work done, we adopted the hackathon style, which means that groups should pitch their ideas to a jury, and it's up to the jury to decide the best ones.



The JURY

Experts

Local actors



FOLLOW-UPS FEEDBACKS

The hackathon model has lots of advantages as a pedagogical tool but can be questioned regarding its short duration opposed to the longlasting changes it tries to engage.

> Plus, it can bring a competitive atmosphere between the teams, which we would like to transform into a cooperative atmosphere.

Based on our experience with the Curopean Hackathon, we received excellent feedback from participants and observers. It also inspired local initiatives:

Creation of a Low-Tech Lab

+ Support For Low-Tech projects and initiatives in the "territoire".





Are we building a sustainable and desirable future for everyone?

Our planet faces

unprecedented socio-ecological challenges. The choices we make now will shape our

ability to secure well-being within planetary boundaries.

Low-Tech offers practical, responsible solutions that meet real needs.

Let's examine socio-ecological challenges, human needs, and critical thinking about technology through planetary boundaries and the economic donut model.



Our socio-ecological challenges



What do we mean by Low-Tech? Can less be more sustainable? Is high-tech always the best solution? How can we find beauty in simplicity? What is good design?

THE ART OF

In a world where material resources are increasingly scarce..

...are there products that don't deserve to exist?

IF so, how do we decide?



LOW-TECH ENTREPRENEURSHIP

Liberalism and consumerism have long underpinned the economy,

but this approach is leading us toward disaster. Low-Tech offers new pathways:



The entrepreneurial spirit can no longer be reduced to the financial aspect of business.

> Entrepreneurs must manage the triple bottom line: creating triple value - financial, societal, and environmental for all their stakeholders.

OPEN DESIGN

Embracing openness and collaboration in designs

Are

the items we are

surrounded by truly

accessible?



Knowledge

Are the plans available and understandable for everyone?

Skills - Can anyone build or repair them with their own means?

Finance Are they free or low-cost?

For accessibility to be accessible, we must

- · openly document what we make and do
- · embrace commons-based approaches with appropriate resources, communities, and governance.

Useful, sustainable, and accessible... just like the guillotine and other historical or contemporary artifacts.



But are all artifacts equally desirable for individuals, society, and Nature? What technological legacy do we want to leave for future generations?



Cthics doesn't provide definitive answers - that would be too simple! But it equips us with tools to think critically about these) questions, even if it means raising new ones.

THE IMPERATIVE OF RESPONSIBILITY



TERRITDIRE

What dynamics undermine the relationship between society and its spatial and socio-ecological contexts?

Let's build a framework to understand the interactions between society, technology, nature, and culture, and how the dynamics of place and power can shape the pathways we take to coexist under specific circumstances.

considering the user, ensuring designs are intuitive, accessible, and meet real needs.

Equally vitalis

RELIABILITY REPAIRABILITY RESILIENCE

The three R's

Designing sustainably means creating solutions that last.



Repairable ones encourage upkeep over disposal

> Resilient ones adapt to challenges

By prioritising these principles, we empower users, conserve resources, and ensure Low-Tech solutions remain practical, impactful, and relevant across diverse contexts and generations.

> How can we address criteria that are mutually influencing and sometimes conflicting?

Efficiency is the production effort optimized?

Sufficiency Arethey designed without excessive abundance?

needs?

Focusing on one of these can degrade the others (e.g., impact deferral, rebound effect).

> Addressing all is a challenge.

Formalizing multi-stakeholder preferences can help clarify the importance of each criterion and rank alternatives accordingly.

Effectiveness

Do the products actually meet

EFFECTIVENESS. EFFICIENCY, SUFFICIENCY

Trade-offs between criteria



(using open licenses)























