



Designing sound for sustainability

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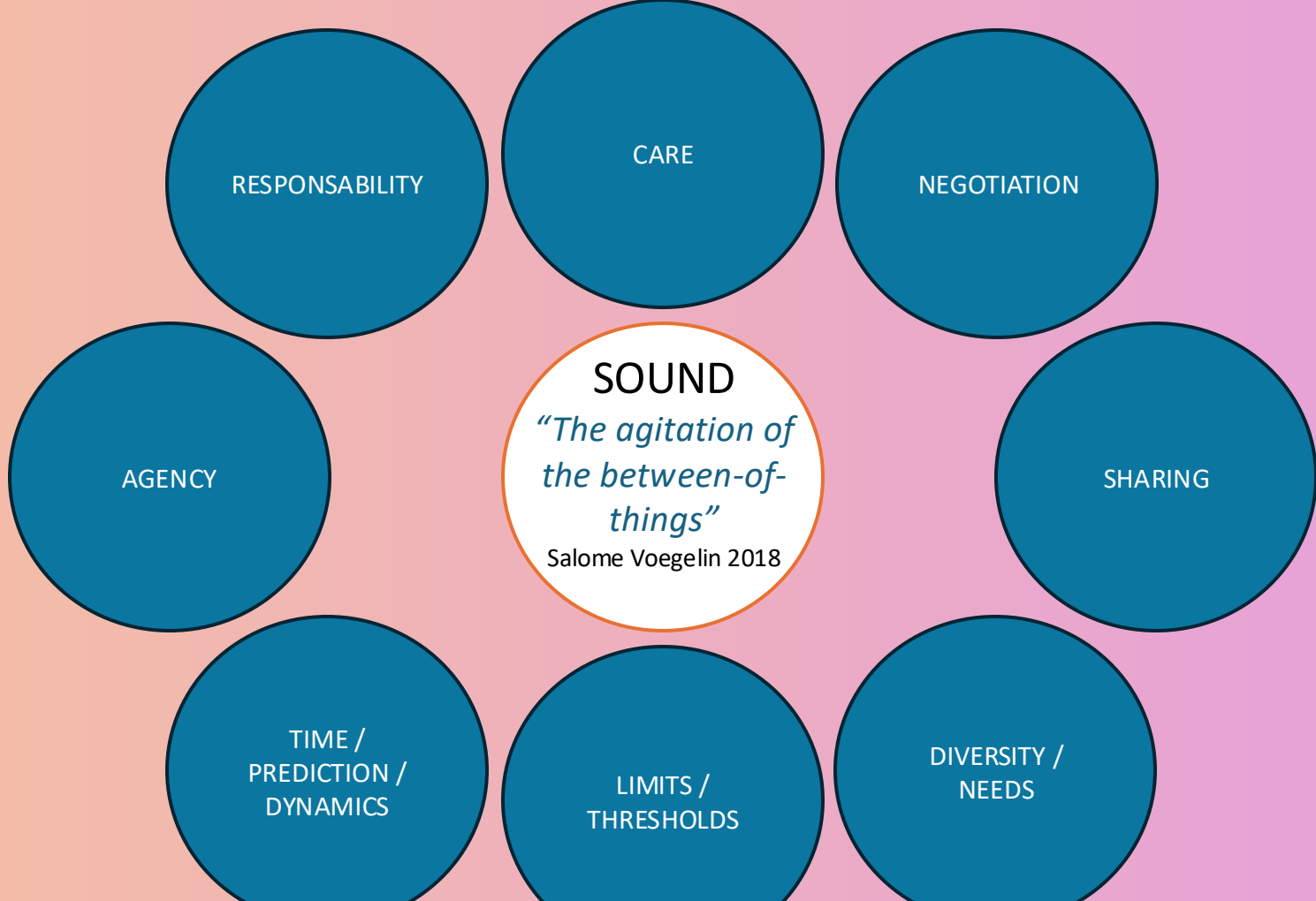
<https://lullabyte.eu>



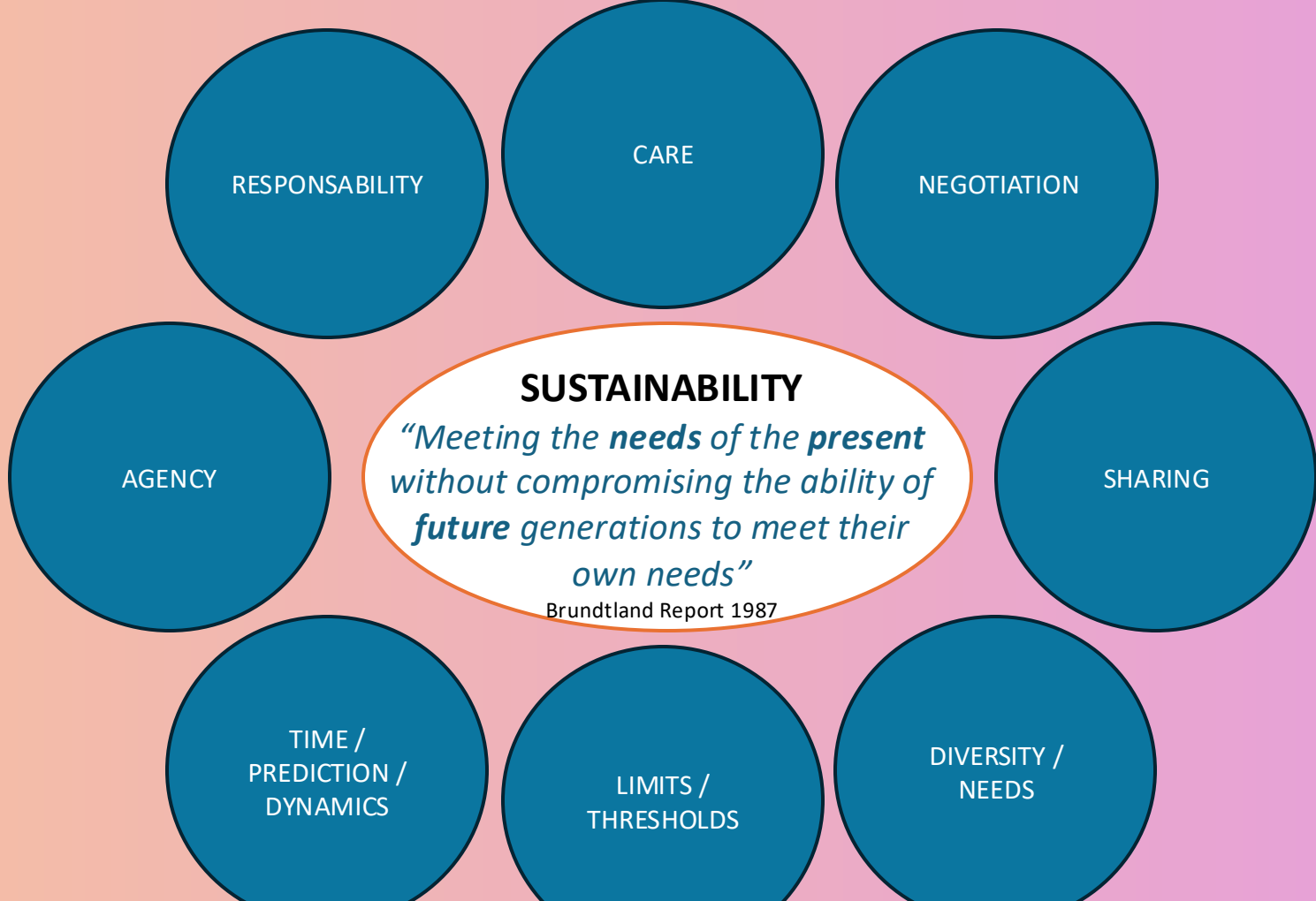




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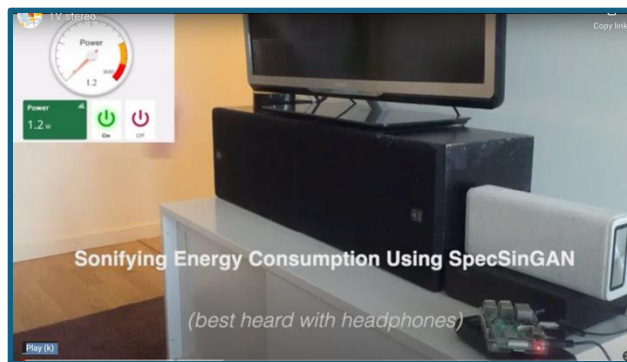


Sound for Energy



<https://soundforenergy.net>

Sonic Interaction Design
to Support Energy
Efficiency Behavior in the
Household



The Singing Shower

A melody-sensitive interface for physical interaction and efficient energy consumption
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Why?
 Efficient showering techniques can save over 20,000 liters of water per person per year.
 Melody-sensitive machine learning offers hands-free control of the water flow.
 With the Singing Shower, users control the flow of water by singing, encouraging efficient water usage through playful engagement.

How?
 • A microphone listens for melodic input in real time
 • A melody is detected if a selected note is triggered, controlling the flow of water. When the singing stops the water flow is stopped.
 • No recordings are made, nothing is stored, and no internet connection is required.

Testing
 Users were asked to control the flow of water by singing. The user interface using a Singing Shower, demonstrating promising usability results in response to 100 users, providing us insights on user preferences and an opportunity for an experiment.

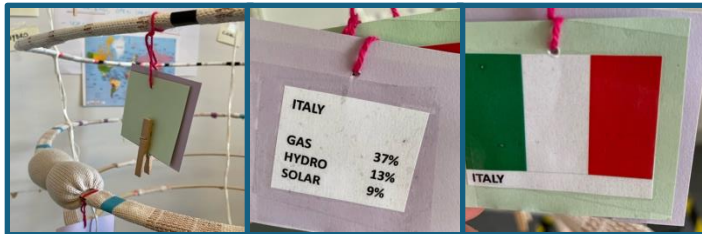
Conclusion
 The Singing Shower requires playful sonic and physical design interventions to manage efficiency. It encourages an engaging behavior and provides insight on the physical space operational with machine learning. We confirmed the Singing Shower as a playful machine encouraging efficiency and user engagement.

Play (0:3)



Earth Electric

From data to dialogue:
a sonic journey through energy
landscapes



Interface by Tove Grimstad Bang



Earth Electric

Listening ...



There is a lot of nuclear, it sounds like a nuclear submarine...

Ukraine has a lot of nuclear... but with the war...

In any case, it would be alarming if a country was 100% nuclear!

It could be France...

Country is revealed

It is France! 64% of nuclear, 10% hydro and 10% wind





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