


Kiertotalous: merkitys ja kokemuksia



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 Special Report

The 2024 state of the climate report: Perilous times on planet Earth

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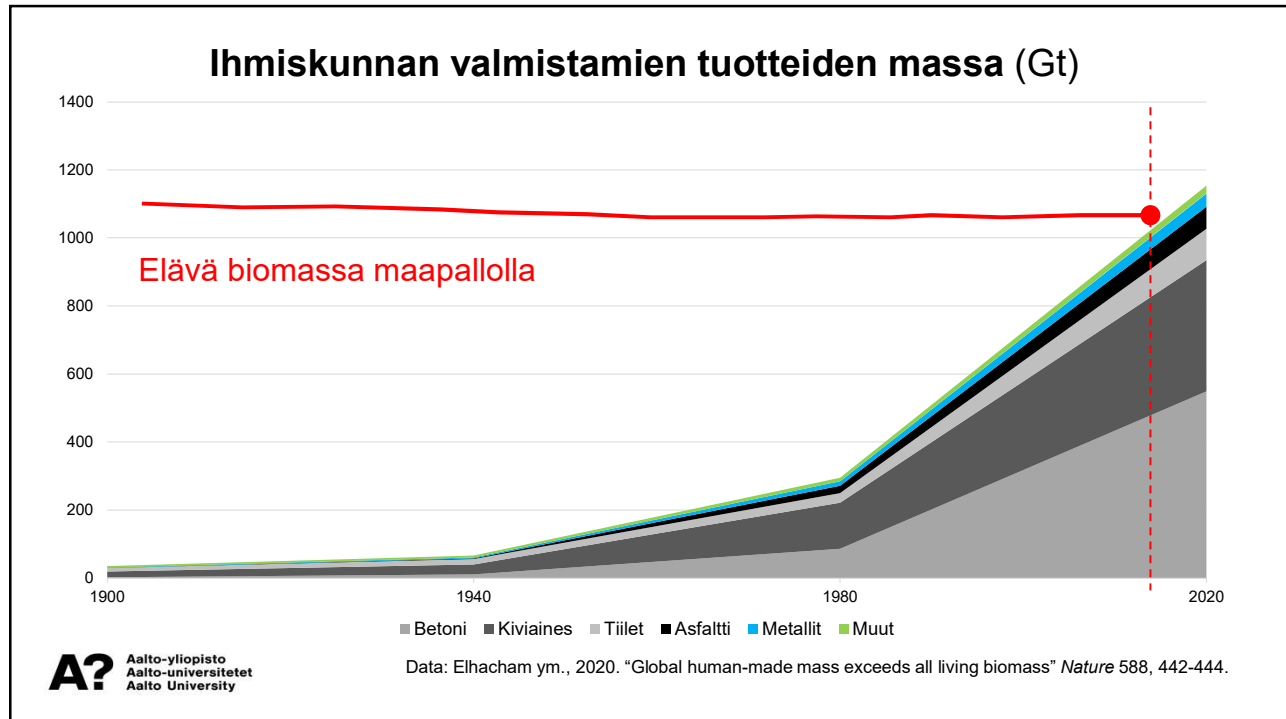
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“We are on the brink of an irreversible climate disaster. This is a global emergency beyond any doubt.”

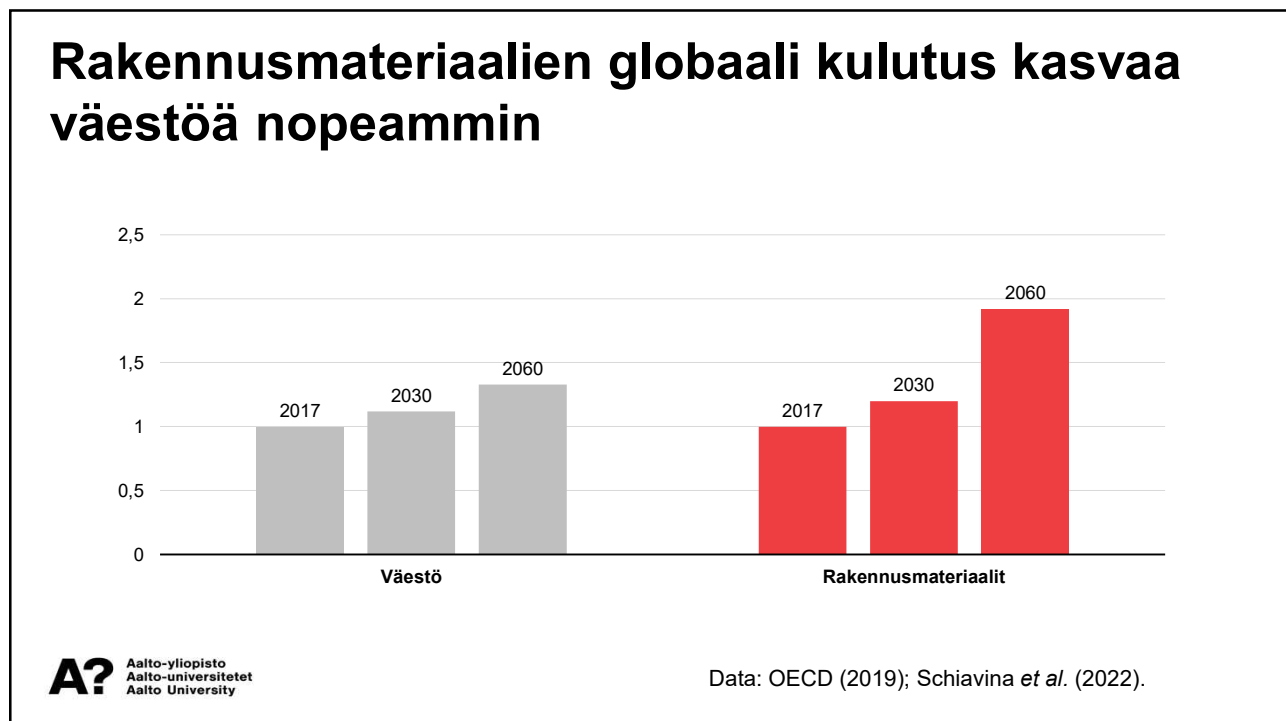
We are on the brink of an irreversible climate disaster. This is a global emergency beyond any doubt. Much of the very fabric of life on Earth is imperiled. We are stepping into a critical and unpredictable new phase of the climate crisis. For many years, scientists, including a group of more than 15,000, have sounded the alarm about the impending dangers of climate change driven by increasing greenhouse gas emissions and ecosystem change (Ripple et al. 2020). For half a century, global warming has been correctly predicted even before it was observed—and not only by independent

emissions, whereas land-use change, primarily deforestation, accounts for approximately 10% (supplemental figure S2). Our aim in the present article is to communicate directly to researchers, policymakers, and the public. As scientists and academics, we feel it is our moral duty and that of our institutions to alert humanity to the growing threats that we face as clearly as possible and to show leadership in addressing them. In this report, we analyze the latest trends in a wide array of planetary vital signs. We also review notable recent

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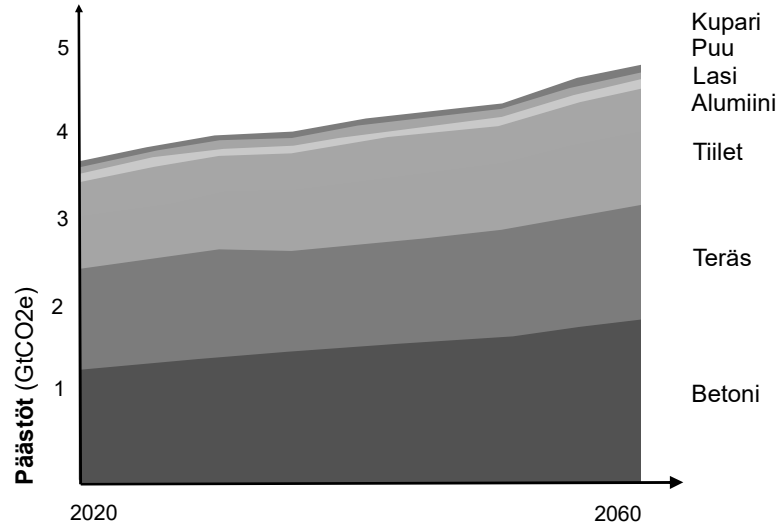


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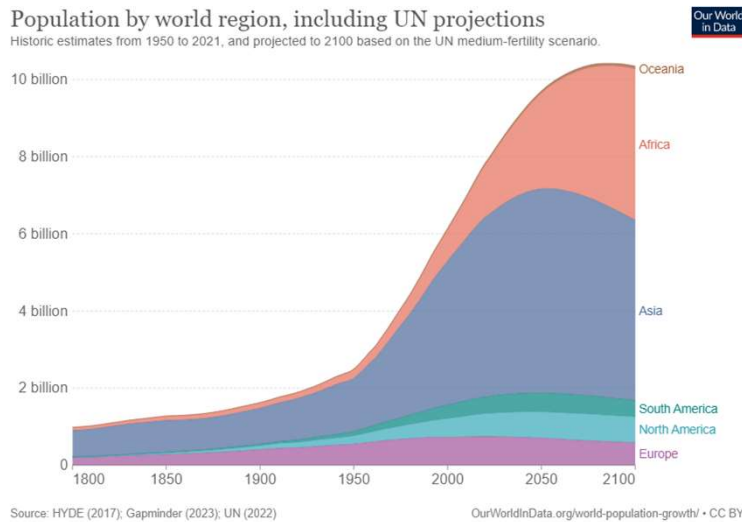
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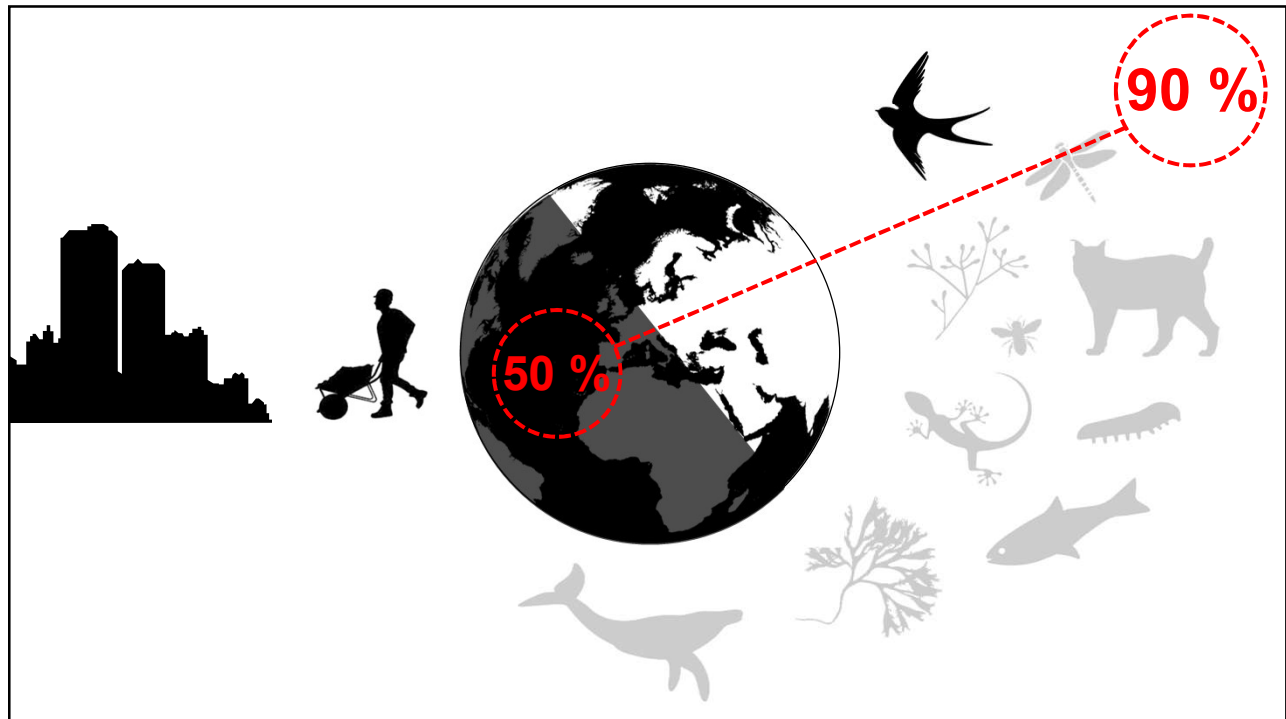
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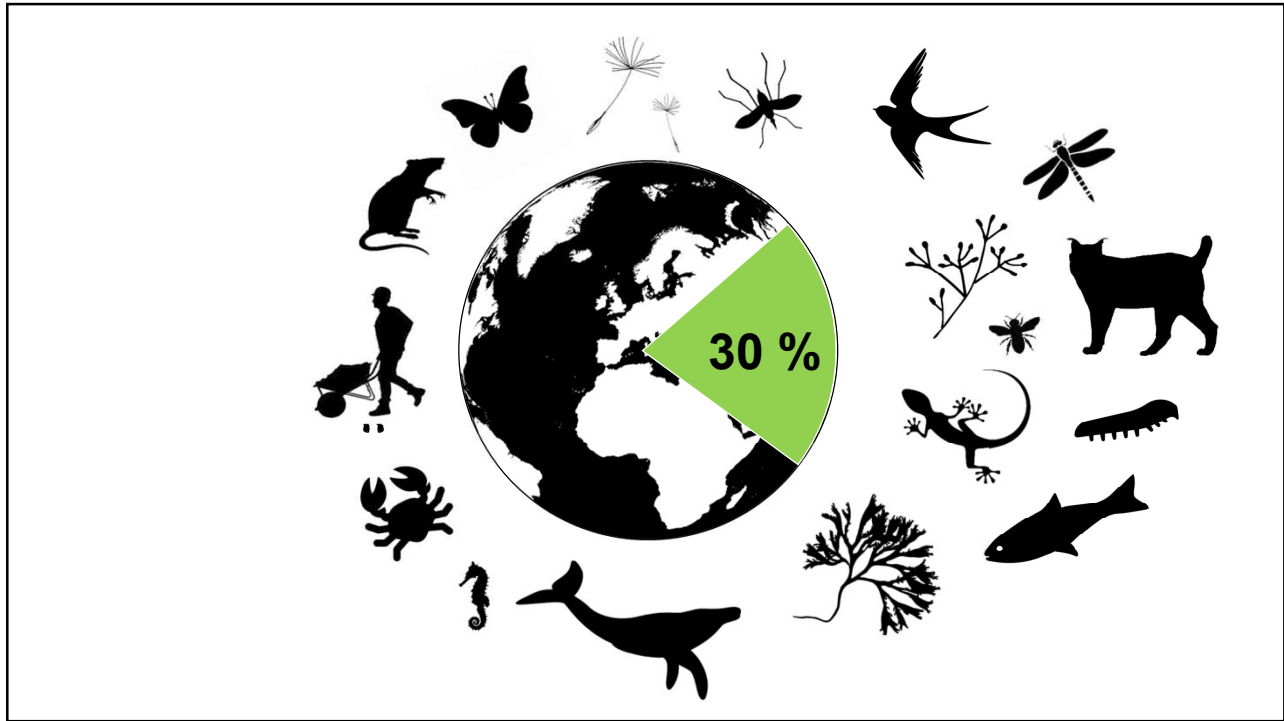
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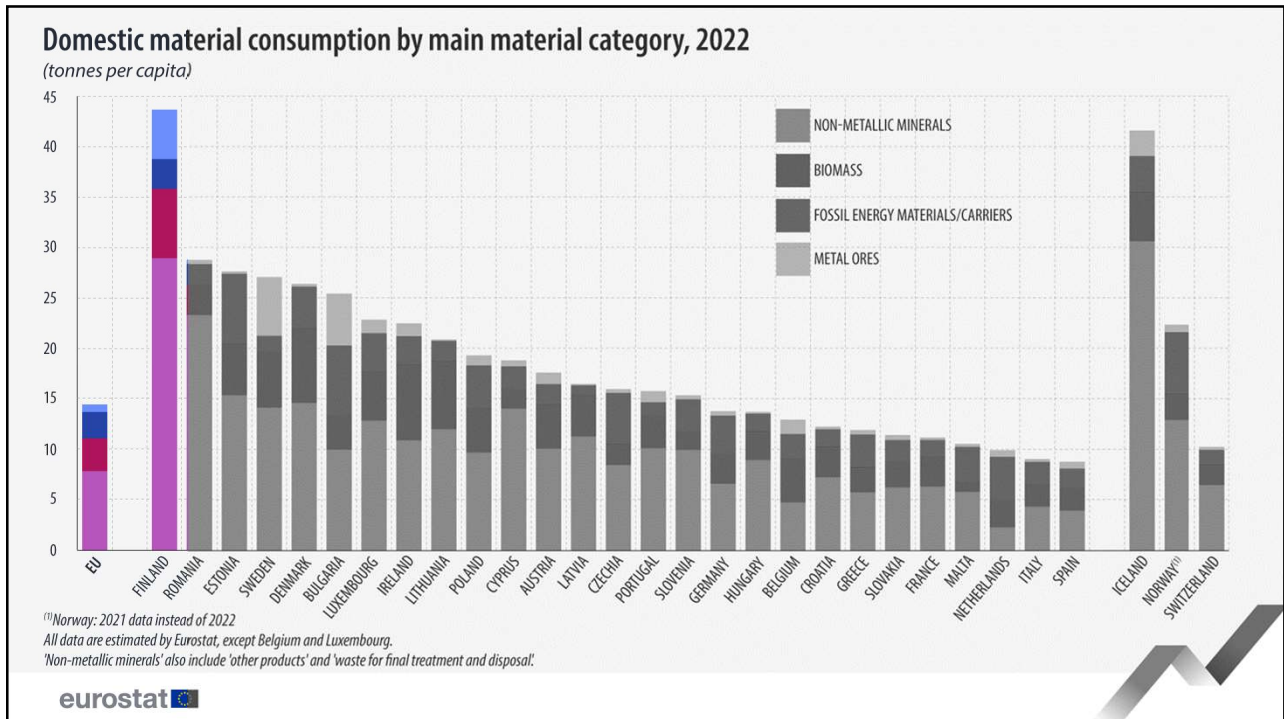
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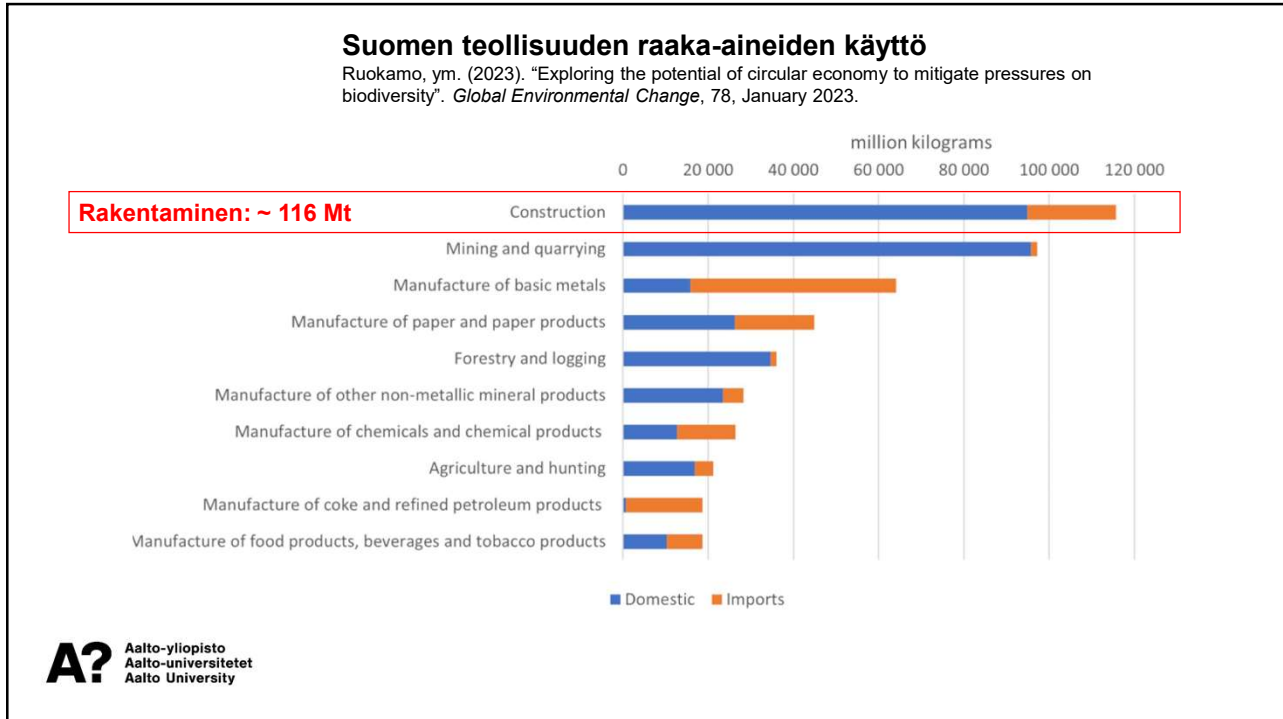
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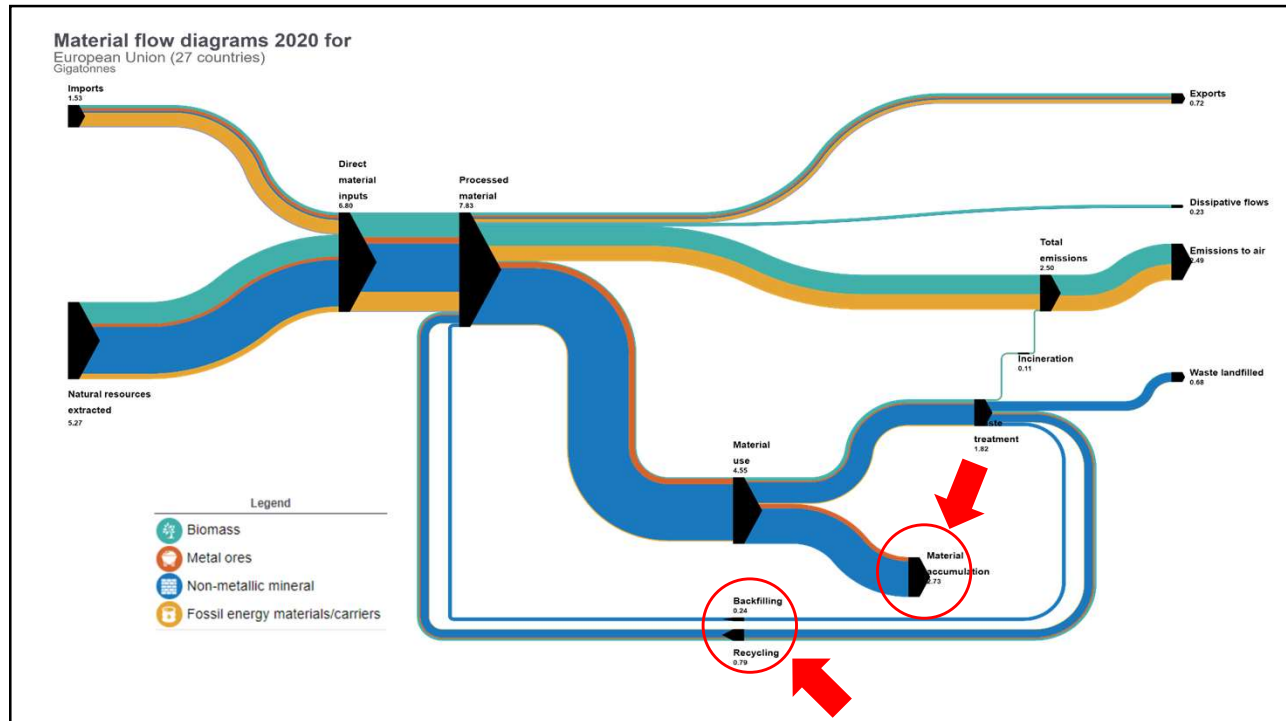
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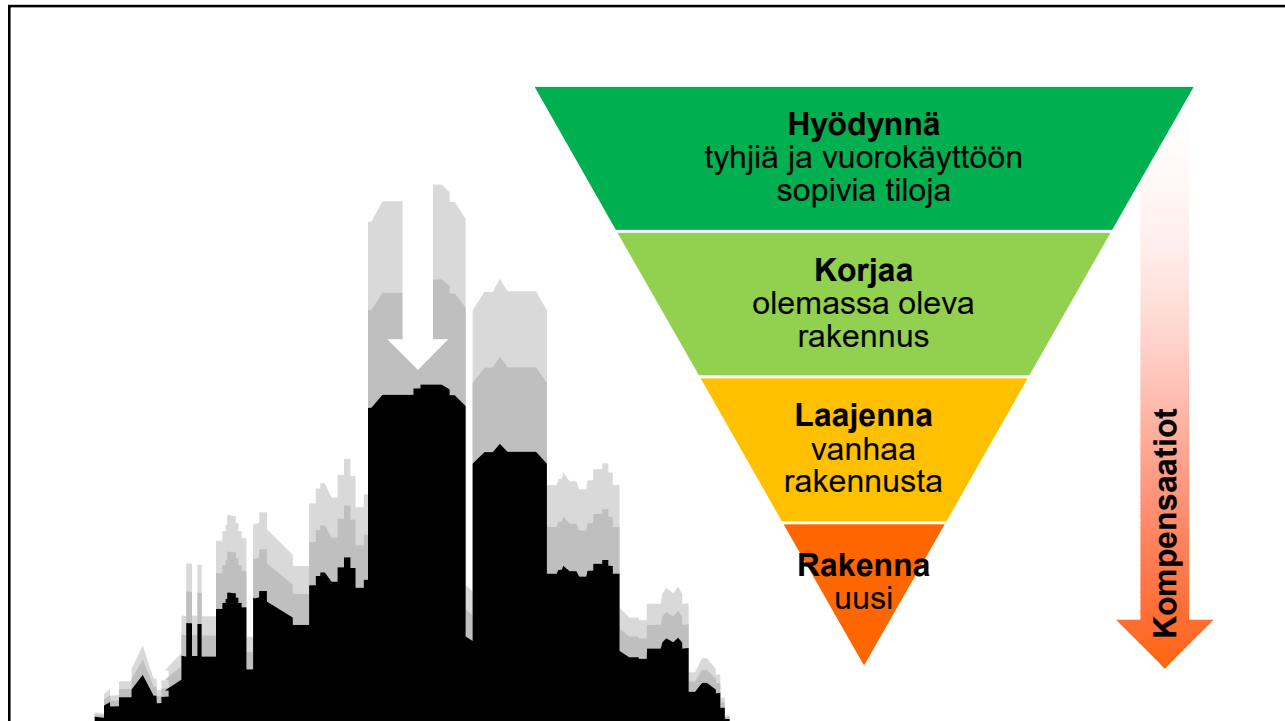
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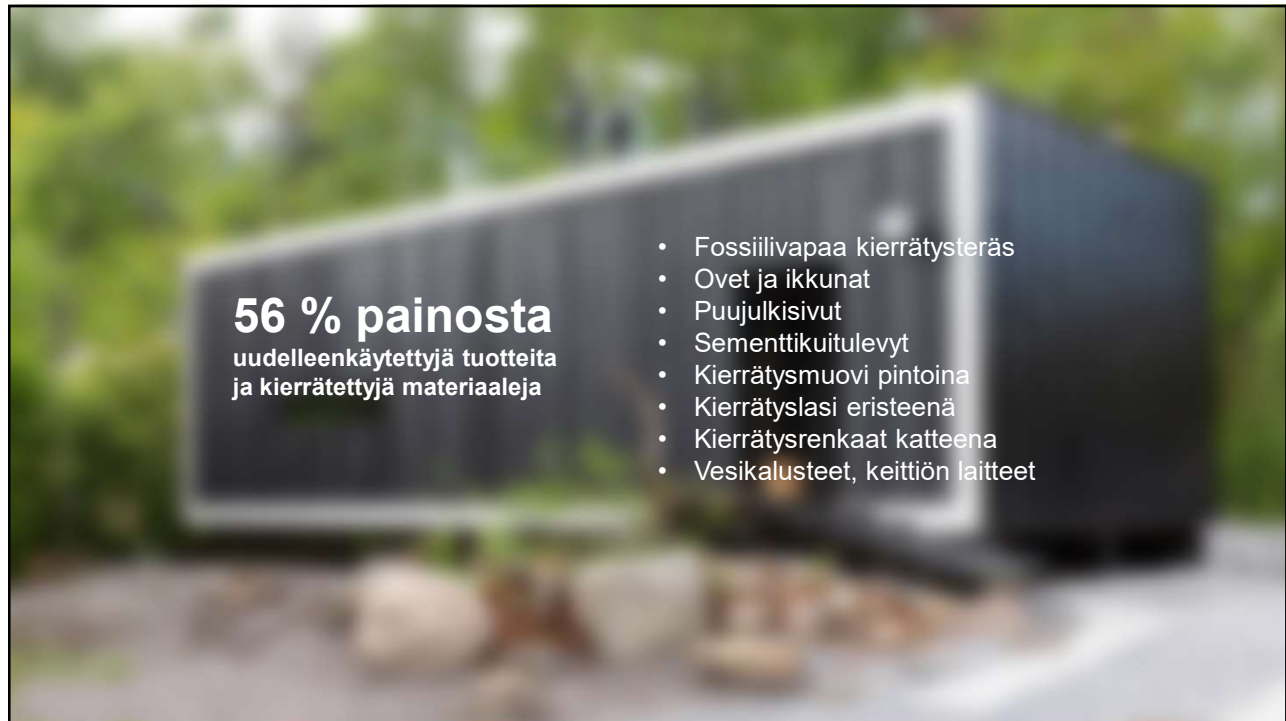
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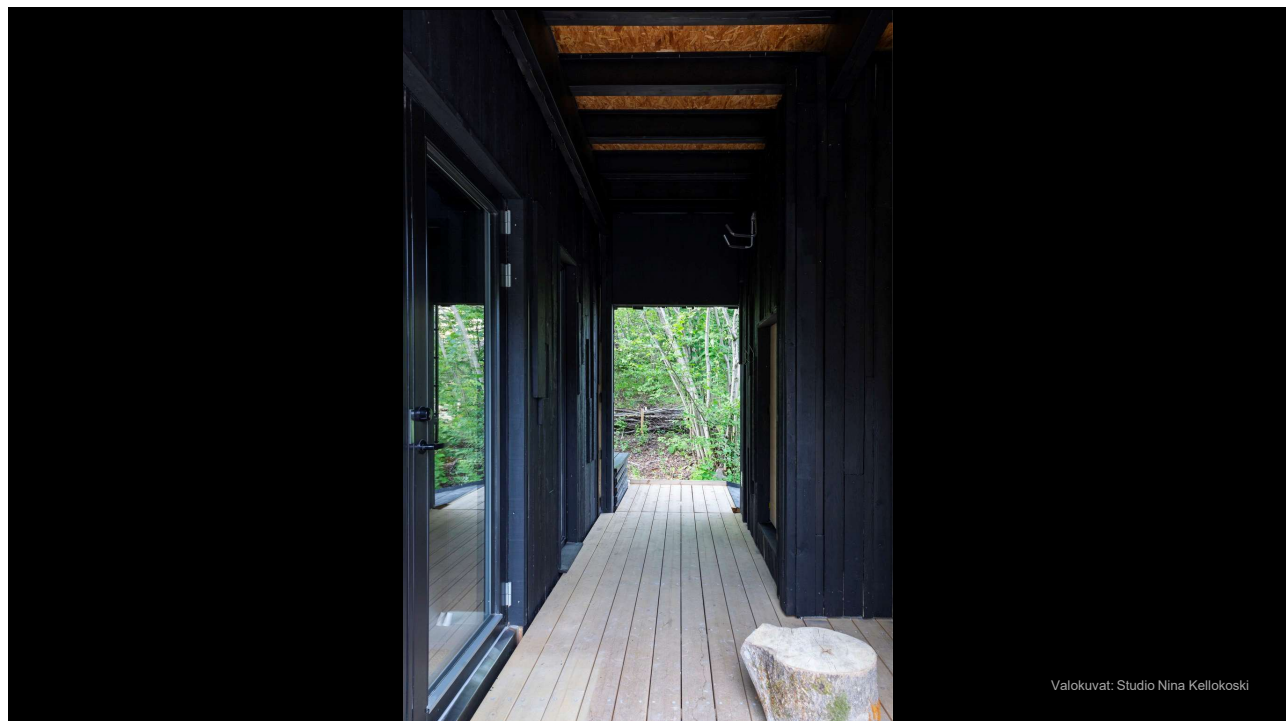
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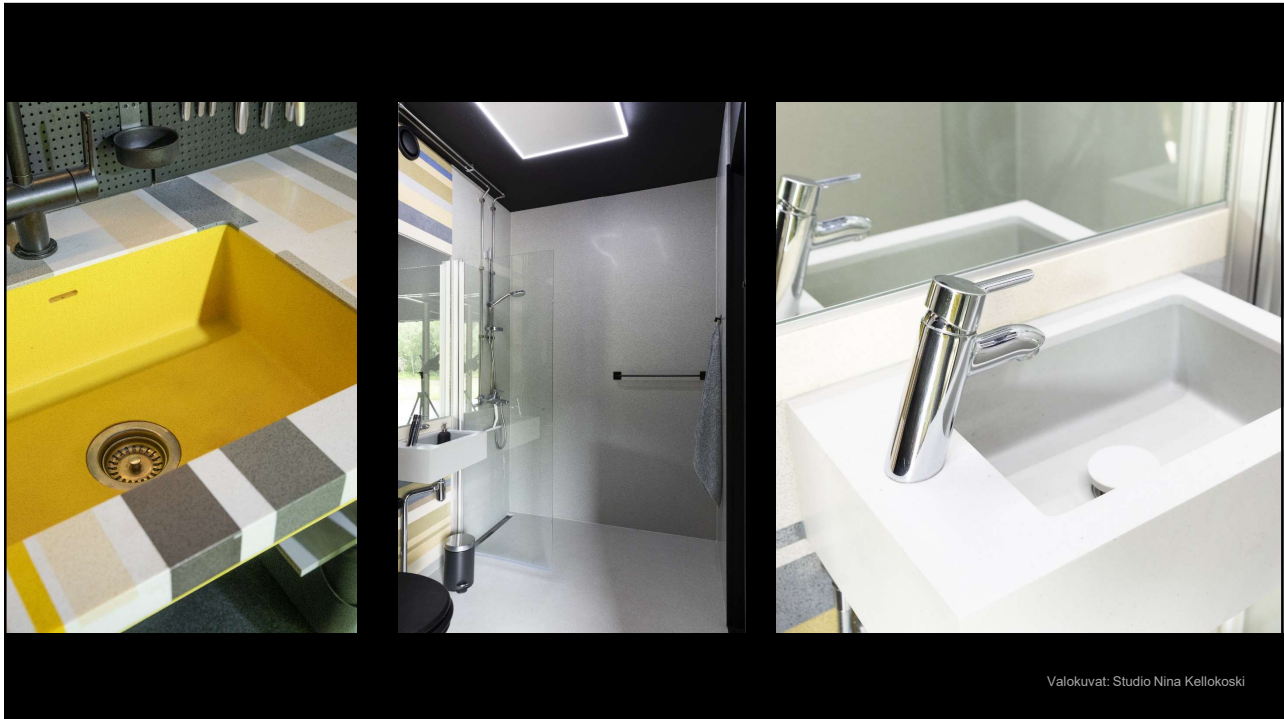
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