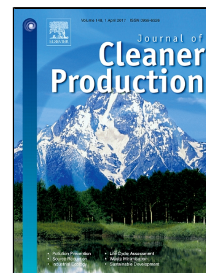


# Accepted Manuscript

System dynamics model of a biotechnomy

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- The structure of a generic framework model for a biotechnomic sectors is created.
- The model includes land use, production, R&D, investments, labour and sustainability.
- The model considers accumulation, delays, feedback, nonlinearity, and uncertainty.
- The model is applied to the forestry sector and birch-derived products.
- Bio-resources, production capacities and adding value are critical for bio-economy.
- The model can be applied to micro, meso and macro economy levels.

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