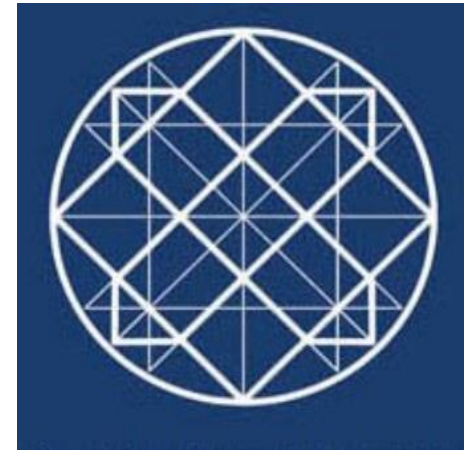


NPO Kinematika, LLC



**MoTSoM Technology for
Enzymatic Hydrolysis**

Enzymatic Hydrolysis

Goals:

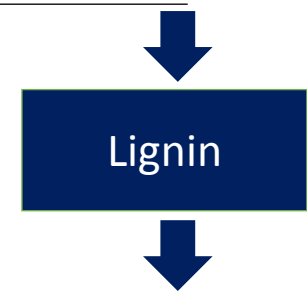
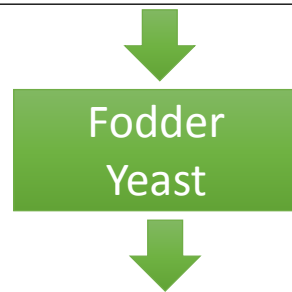
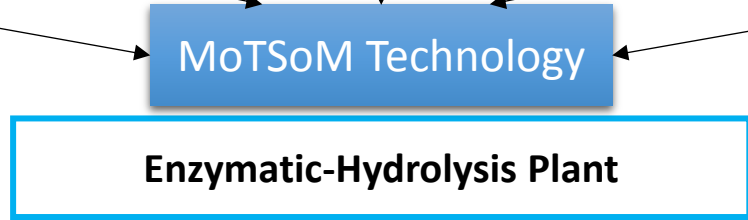
- Industrial development of small towns and settlements
- Stabilisation of demographic situation
- Production of raw materials for industrial chemistry with good prospects for small-scale chemistry and final product production from relevant raw materials
- Creation of a high-protein fodder base for animal breeding and processing
- Ensuring the employment of population (of quite highly-skilled specialists)
- Improving the stability of energy and food security of a region

Strengths:

- Zero environmental load and significant increase in share in the “green economy”
- Products are high-margin and have a stable demand in the market
- Development of associated sectors of the economy: efficient animal breeding, production of polymer materials and polymer based products
- Involvement in economic turnover of sizeable raw material base that contains cellulose-lignin raw materials

Sources of Raw Materials

MoTSom Technology: Enzymes



Fuel

Agriculture

Medicine and Chemical Industry



Selling ethanol to oil-producing companies
Component of ecologically clean petrols

Animal Products
Processed Animal Products



Activated Carbon

Chemical Industry



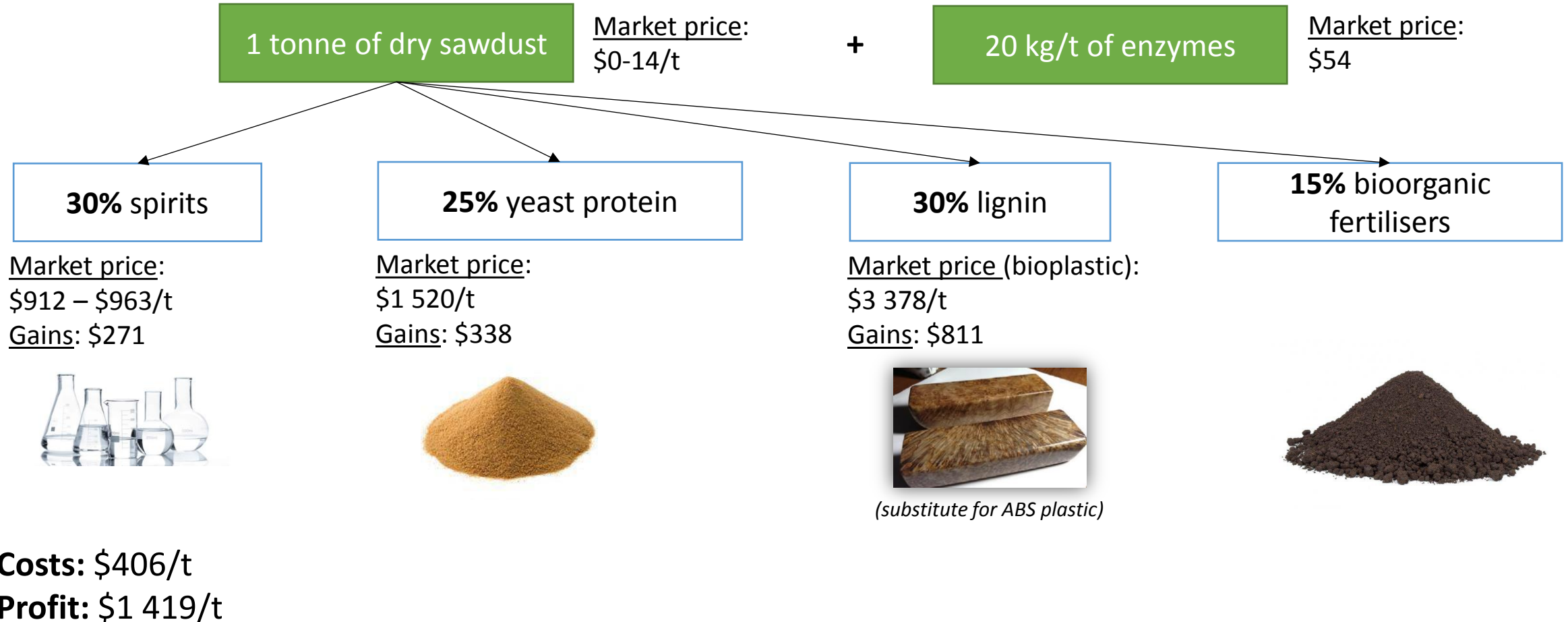
Solvents
Dyes
Acetic Acid

Bioplastic Production



Furniture
Household Utensils
Consumer Electronics

Economic Evaluation



Enzymatic Hydrolysis

Principal Technological Differences:

Indicators	Conventional Technology (Hydrolysis Plant)	MoTSom Technology (Enzymatic Plant)
1. Products produced:		
- spirits	+	+
- fodder yeast	+	+
- lignin	Requires additional technological conversion of raw material	No need
2. Level of toxicity of production (ecological load)	High	Low
3. Required level of security	High	Low
4. Capital costs	High	Low
5. Technological cycles	7	4
6. Sources of raw materials	Unlimited	Unlimited
7. Cost of final product	High	Low
8. Speed of process	Low	High
9. Conversion rate	80%	100%

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Thank you for attention!