

The innovative proposition

to attract investors and buyers

1. Name of innovation

Modern energy-saving and resource saving technologies of processing of raw grain materials in grouts products

2. Intellectual Property

Select the appropriate position, put the mark «+». Write relevant information.

- Patented Innovation countries: Ukraine
- Filed for a patent countries: _____
- License agreement or Exclusive rights. Exclusive rights
- Other (specify) _____

3. Type of innovation

Select the icon by replacing from "-" to "+"

<input checked="" type="checkbox"/>	Product
<input checked="" type="checkbox"/>	Technology

<input checked="" type="checkbox"/>	Result of R&D
<input type="checkbox"/>	Other (discussed separately)

4. Areas of innovation

Select one or more applications innovation by replacing from "-" to "+" .

-	Automobiles, transport and logistics
<input checked="" type="checkbox"/>	Agriculture and food technology
-	Aerial and space technology
-	Biochemical technology
-	Building
-	Military Industrial and Safety
-	Energy and Energy Saving
-	IT-technology, ICT industry and services
-	Light industry
-	Marine industry and services
-	Environment
-	Nano- and Micro Technology
-	New materials
<input checked="" type="checkbox"/>	Medicine and Health
-	Creative industry
-	Tourism and cultural heritage
-	Other. (Please specify below the scope)

5. Novelty

What does innovation superior (in digits or qualitatively) already existing? (The answer should be clear and concise - three main arguments in support of the use of promising innovations in domestic and/or foreign markets)

Analysis of Ukraine's largest groats plants shows that the majority of technological solutions which laid down in the existing regulations and other normative documents although allow to effectively processed of traditional grains but are extended, involving the use of significant amount of technological equipment, are not energy efficient, given the relatively low yield of finished products, the implementation of the basic operations of mechanical grain processing (dehulling and pearling) formed significant proportion of secondary raw materials due to which reduced nutritional value of products. Innovation is aimed at solving the most important problems of domestic grain processing (groats) industry. Reduced energy technologies for processing grain crops (oats, buckwheat, millet, rice, barley, wheat, peas) in the traditional range of products which can increase the output of finished products in 1.2-1.3 times, improve its quality properties (increased content of the most important for the human body protein, fat, vitamins, minerals, etc.), by reducing the number of energy-intensive operations to reduce energy costs by 10-20% and ensure high consumer properties of the products were developed. Based on the traditional for industry raw materials developed more advanced technology for production of a new for Ukraine range of products – mixes of groats, rolled products and flour, created new dietary products and functional foods. Developed technologies for processing non-traditional for Ukraine types of cereals and beans – naked oats, hull-less barley, wheat-spelt, new black-grained variety of wheat, chickpeas into traditional for domestic consumers groats products. A feature of these technologies is the focus under existing at groats plants production equipment which allows its implementation without the capital costs for conversion and modernization. Thus the yield of products depending on the type of raw material processed is in the range 70-80% obtained products characterized by high nutritional value. Typically the practical implementation of technology on existing grain processing enterprises requires the following steps:

1. Analysis of existing technological schemes and equipment installed at the plant;
2. Analysis of possibilities and ways to implement new technology;
3. Design of the new technological scheme under opportunities of the plant;
4. Setting detours under new scheme;
5. Setting modes of grain cleaning and processing equipment;
6. Trial run of the plant;
7. Analysis of possible violations of the equipment operation;
8. Elimination of violations;
9. Work of the plant in normal mode under the new scheme.

To created technologies developed normative documentation (specifications, technological instructions) that when designing new schemes are transferred to the enterprise. Upon reaching agreements intellectual rights of use new technology may be transferred to the enterprise.

6. Stage of Innovation

What is innovation's stage of development? Select the icon by replacing from "-" to "+"

-	The concept, proof of concept
-	The prototype, which tested and available for demonstration
+	The technologies for small-scale production
+	The technology is ready for industrial application
-	Commercialized

7. The presentation innovations at the Forum

Select one or more forms by replacing badge from «-» to «+»

-	The demonstration model
+	Multimedia presentation
-	Report

8. Information about the participants, which apply innovation

	<i>If innovation is filed away</i>
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