HIGH QUALITY BIO POLYOL FROM RENEWABLE RESOURCES
Who we are?

PolyLabs is an innovative chemical company established in partnership with scientific Institute of Wood Chemistry of Latvia to produce Bio based polyol for the polyurethane industry.
WHAT IS POLYURETHANE

Polyurethane is a universal and popular chemical polymer product used in many industries - construction (insulation material, foam), shipbuilding, automotive, refrigerators, sports equipment manufacturing (surfboards, etc.), pipe insulation, furniture, design, packaging, and many more.
THE PROBLEM

The problem in the polyurethane industry is simple – lack of renewable resources supply for a reasonable price and lack of courage to develop PU products from renewable bio based materials. However the industry is slowly starting to shift to

GREEN ALTERNATIVE
WHAT IS BIO BASED POLYOL?

Our Bio Polyols are high quality bio based polyols synthesized using renewable materials such as rapeseed (conola) and tall oils. The best use for these polyols is for the production of rigid polyurethane foams for thermal insulation application.
ADVANTAGES

- Renewable Source
- Green Process
- Competitive Price
- Better Characteristics
- Bio Based Alternative
BIGGEST CHALLENGES

• **Sales process 1-2 years** (tests are made in every link of the customer chain)

• **Client trust in innovations** (more than 100 years old business change)

• **Lack of courage in the industry** to change the conventional way of manufacturing

• **Capacity of manufacture**, (client capacity asks for more than we can offer)

• **Formulations or recipes**. (client R&D does not have experience or time to develop new formulations).
Comercialization steps
(9 steps for each client)

The product has been developed and is ready.

1. Client approach
2. Technical data exchange
3. Laboratory tests
4. Formulation fine tuning, modification or development
5. Industrial scale tests
6. Results presented to the end customer.
7. End customer laboratory tests.
8. End customer industrial scale tests.
9. *The same if there are more end users.*
10. Contract
WHAT WE HAVE DONE SO FAR

- More than 160 clients globally have been contacted and more than 50 are testing our products
- One client has successfully developed a new product, many under development, testing
- Attracted venture capital 200 000 EUR
- Private investor capital 50 000 EUR
- Successfully taking part in Green technology incubator, Norway grants
- Outsourced manufacture (capacity 280-300 tons per month)
- Taking part in major industry exhibitions (UTECH EUROPE 2015, PUTECH EURASIA 2015, Spray foam expo US, Utech NA 2016 US)
- R&D and sales team development
- Client data base, distribution channels in Germany, Austria, Switzerland, Poland, Scandinavia in progress
- New product development (flexible foam, high funct. Polyol)
- Started a Horizon 2020 project as part of international company consortium
Business future

• Own manufacture plant development to reach 10,000t annual capacity.

• Systems house spin off development. Blending facility construction.

• PU product manufacture spin off development. (e.g. sandwich panel manufacture, construction insulation, surfboard factory, etc.)
Contact us
Office address:
72 Mukusalas street, Riga
Republic of Latvia, EU
www.polylabs.eu
e-mail: office@plantpoly.com
Phone: +371 26364414