

# Developing an effective system of used oils recycling

*(internship report)*

**PROJECT TEAM:**

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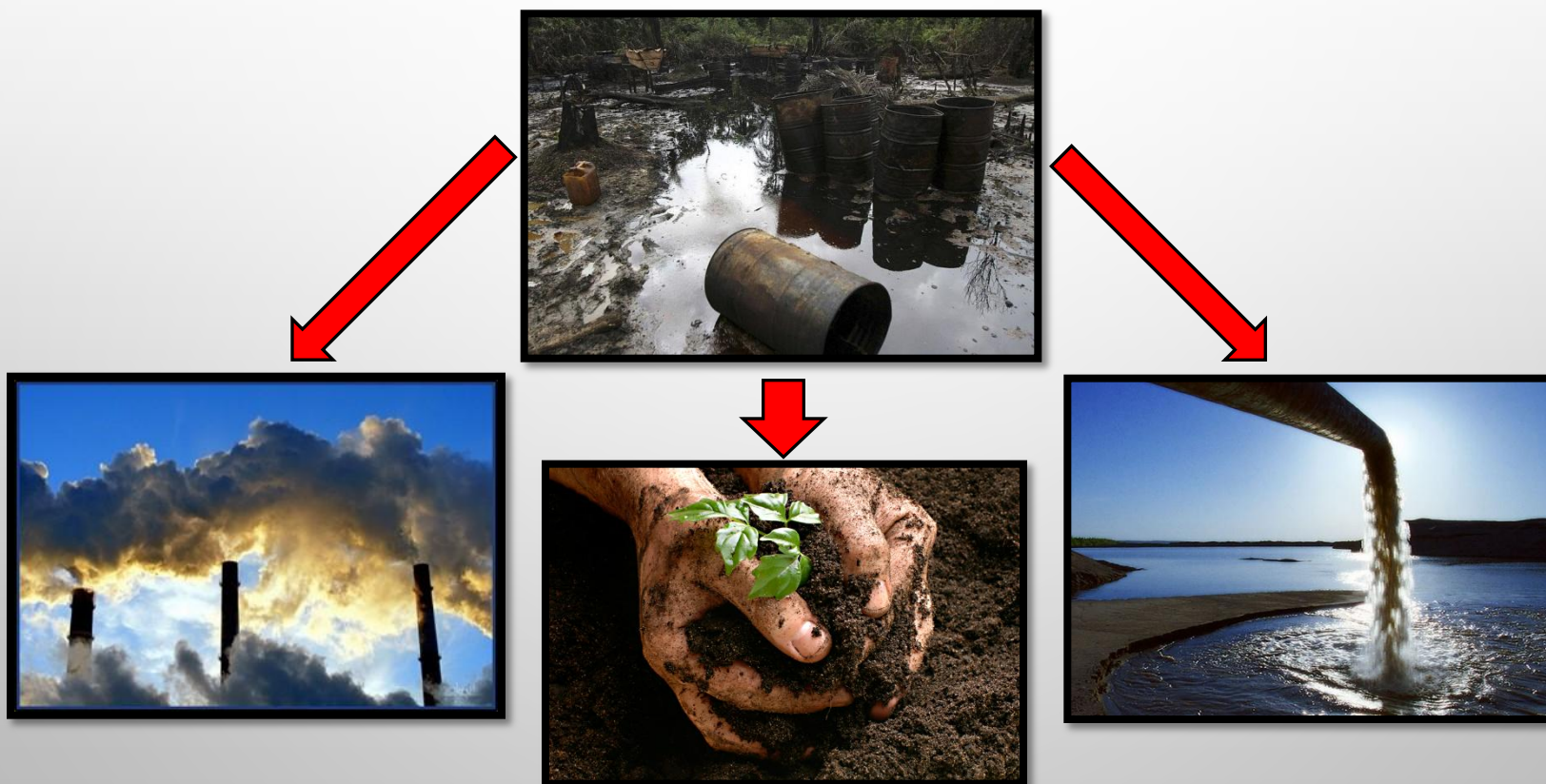
PH.D., ASSOCIATE PROFESSOR

## Presentation structure

1. *The main idea of the project*
2. *Purposes of the internship*
3. *Desired results*
4. *Actual results*
5. *The main events of the internship*

## The main problem

***Improper disposal of used oils poses a serious threat to the environment!***



## Mission and objective



### **THE MISSION OF THE PROJECT**

*TO MAKE KRASNOYARSK KRAI  
PURE!*

### **THE OBJECTIVE IN GENERAL MEANING**

*To offer a solution, how to recycle  
used motor oils without any threat  
on the environment as well as  
with the maximum economic  
benefit.*



## Purposes and achieved results

	Purposes	Desired result	Stage	Actual result
1	To learn technologies for re-refining used oils	Summary	Totally done!	Were obtained: <ul style="list-style-type: none"> <li>Technologies review</li> <li>List of useful textbooks</li> <li>Internet links</li> </ul>
2	To learn equipment which is used for re-refining used oils	List of required equipment	Totally done!	Was obtained: <ul style="list-style-type: none"> <li>A list of the main types of equipment</li> </ul>
3	To learn schemes of technological processes during visiting a plant	Technological schemes	Totally done!	Were obtained: <ul style="list-style-type: none"> <li>Technological schemes</li> </ul>
4	To study how the manufacture affects on the environment	Report about the main ecological indicators	Partly done	<ul style="list-style-type: none"> <li>Reports are confidential information</li> </ul>
5	To obtain a list of reliable manufacturers and suppliers of equipment, reagents and materials	List of manufacturers and suppliers of the main equipment, reagents and materials	Totally done!	Was obtained: <ul style="list-style-type: none"> <li>List of exact companies</li> </ul>

# The main events of the internship

## 1) Plants were visited:

- Normandy refinery
- Total refinery
- Lyondell Basell
- Ineos
- Coca-Cola

## 2) A meeting with a representative of Axens company

- Discussing the worldwide used oil re-refining industry

## 3) Courses was completed:

- Refining and petrochemicals overview
- Separation processes

# THANK YOU FOR YOUR TIME!

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