



HORIZON 2020

IETU fit for Horizon 2020

WASTE TOPICS OF SC5 CALL

Izabela Ratman-Klosinska, IETU

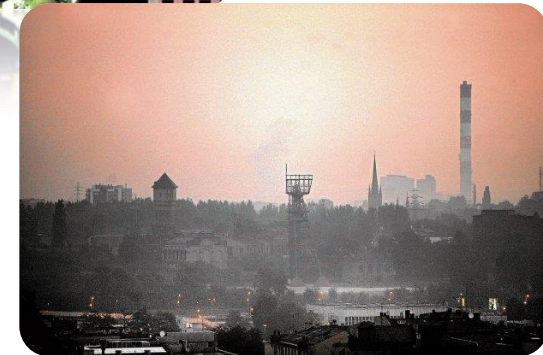
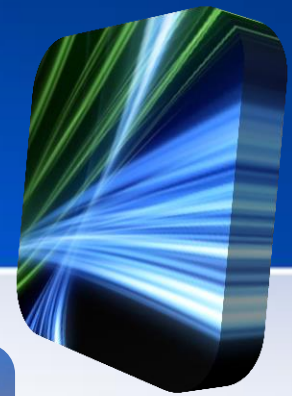
About IETU



- **Institute for Ecology of Industrial Areas (IETU)** is a R&D unit acting under the Ministry of Environment
- We are a public research body
- A multidisciplinary staff of 95
- Our potential is based on over 40 years of experience in performing research addressing environmental issues of industrialised and urbanised areas at home and internationally



Where are we from



Silesian Voievodeship

- The largest urbanised area in the Central-Eastern Europe
- Population: over 4,64 milion inhabitants, (12.2% of Poland's population)
- Poland's highest density index 377 people/km²
- 167 municipalities including 49 urban, 22 – urban/rural and 96 rural.
- High degree of urbanisation : almost 79% of Silesians live in 71 cities
- 13% of Poland's Gross Domestic Product (GDP)

What we do



We perform:

- research and innovation projects,
- carry out studies for clients from administration and businesses,
- provide consulting and services to public bodies and economy sector



Integrated environmental management – a key area



- ❑ Tools for modelling and management of air quality at local, regional and European scale
- ❑ Tools for modelling and management of water quality in catchments change
- ❑ Tools in support for sustainable land management (circular land management concept)
- ❑ **Policies and measures for optimising waste management at local, regional and country level**
- ❑ Methods for assessing health risk and environmental exposure
- ❑ Soil and groundwater remediation technologies (phytoremediation)
- ❑ **Tools improving resource efficiency (waste to energy, waste to resources)**
- ❑ Tools for monitoring and assessing the phenomena occurring in the environment due to human activity (adaptation to climate change)
- ❑ **Tools in support of ecoinnovation policies (ETV)**



Waste themes at IETU 1/2



- Development of waste management strategies and programmes of different scales (national, regional, county, municipality level as well as individual plants/installations)
- Optimising the organisation of municipal waste management systems for municipal waste operators, municipalities and districts
- Technical and economic consulting on the waste management technologies selection
- Development of technological concepts, feasibility studies and monitoring of waste management facilities



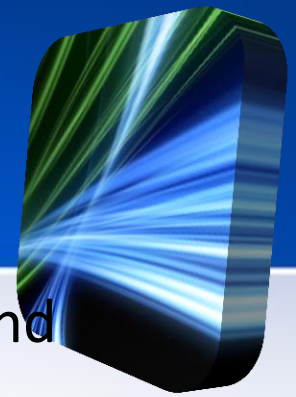
Waste themes at IETU 2/2



- Environmental impact assessments of installations/facilities/technologies but also novel materials
- Research and evaluation of waste management alternatives: waste to resource, waste to energy
- Development of environmental restoration concepts for closed down landfills
- Waste analyses (ISO 17025 accredited laboratory for waste sampling and analysis)



Examples of waste projects



- ❑ National Master Plan for Waste Management in Poland
- ❑ Master Plan for Municipal Waste Management in the Silesian Voievodeship
- ❑ Agglomeration master plans for municipal waste management e.g. for Cracow agglomeration, Łódź agglomeration
- ❑ Local and regional master plans for hazardous waste management
- ❑ FP7 IRCOW project (construction and demolition waste reuse and recycling for high grade applications)
- ❑ FP7 THERMACO project (environmental impact assessment including waste aspects of a novel product - Smart Thermal conductive Al MMC's by casting)



The expertise offered



- a wide set of data concerning waste management in Silesia Voivodeship and in Poland
- updated information on legal, organisational and technological solutions in the field of municipal waste management in Poland and other EU countries
- methodology for developing Municipal Waste Masterplans at different management levels: country, macro-region, voivodeship, municipalities and their groups and individual installations
- broad and many-year experience in disposal and processing of municipal wastes and landfilling system planning, including selective waste collection



Our experience in EU/international projects



Agreement IETU – US DoE

Bioremediation of contaminated soils

4 FP EU

POPCYCLIC-BALTIC

MAMCS

5 FP UE

NCORE

NORISC

METALLOPHYTES

MERLIN

PHYTODEC

IMAGE-TRAIN

WELCOME

CABERNET

CARBOMONT

EMECAP-NAS

MERCYMS

URBAN-EXPOSURE

6 FP UE

ESPROME

INTEGRATION 4 WATER

RYM

NATAIR

EURODEMO

DROPS

AQUATERRA

ALTER-NET

ERANET CIRCLE

CACHET

SOCOPSE

PHIME

2-FUN

7 FP UE

BRIDGE

UPSOIL

PREPARED

ADVANCE ETV

TIMBRE

IRCOW

DEMOCLOCK

PHYTO2ENERGY (IAPP)

THERMACO

INTERREG

INTEGRA SITIES

MAGIC

Improving air quality in the

Border region of Poland and Czech Republic

COHIBA

FOKS

CIRCUSE

CULTURE

COAL

CIP IEE

BEN

e-Content

MARQUIS

LIFE+

ENVEUROPE

PROINNO

ECOPOL (subcontractor)

Global Methane

Partnership (US EPA)

Methane to LNG Zory
coal mine project



H2020 topics of our interest



- **WASTE-1-2014: Moving towards a circular economy through industrial symbiosis**

IETU could contribute with e.g.

- analysis of waste material flows coming from different sectors/patterns of supply
- analysis of waste streams composition in view of their use
- organisational and management systems design
- dedicated ICT tools design
- Contacts to SMEs/clusters/platforms
- Expertise on EU Environmental Technologies Verification



H2020 topics of our interest



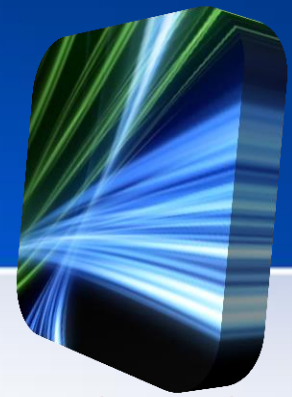
- **WASTE-3-2014: Recycling of raw materials from products and buildings**

IETU could contribute with e.g

- Analysis of waste composition from the viewpoint of extraction of the raw materials from complex products and buildings containing a multitude of minerals and metals, wood-fibre based materials, polymers and plastics etc.
- Environmental impact assessments for innovative technologies
- Contacts to SMEs/clusters/platforms



H2020 topics of our interest



- **WASTE-4-2014/2015: Towards near-zero waste at European and global level**
 - a) [2014] An EU near-zero waste stakeholder platform
 - c) [2014] Secondary raw materials inventory

IETU can contribute with/to e.g.

- defining an integrated strategic research and innovation agenda for waste prevention and management in the EU, defining areas of waste technologies to be clustered, and proposing actions for strengthening links between research funding programmes across the EU development of the roadmaps, public involvement etc.
- Inventory data from Poland to the EU knowledge base with data and information on secondary raw materials,



H2020 topics of our interest



- **WASTE-6-2015: Promoting eco-innovative waste management and prevention as part of sustainable urban development**
- **Strategic topic for IETU**



H2020 what else do we offer



Thank you for your attention



- **Contact details:**

Izabela Ratman-Klosinska

International Business Manager

Institute for Ecology of Industrial Areas

6 Kossutha Street

40-844 Katowice, Poland

Phone : + 48 32 254 60 31 ext. 243

Mobile : + 48 691 566 888

Fax +48 32 254 1717

E-mail: rat@ietu.katowice.pl

www.ietu.katowice.pl

