



Education and Culture DG

Lifelong Learning Programme

# Brownfields Regeneration Know-How Transfer

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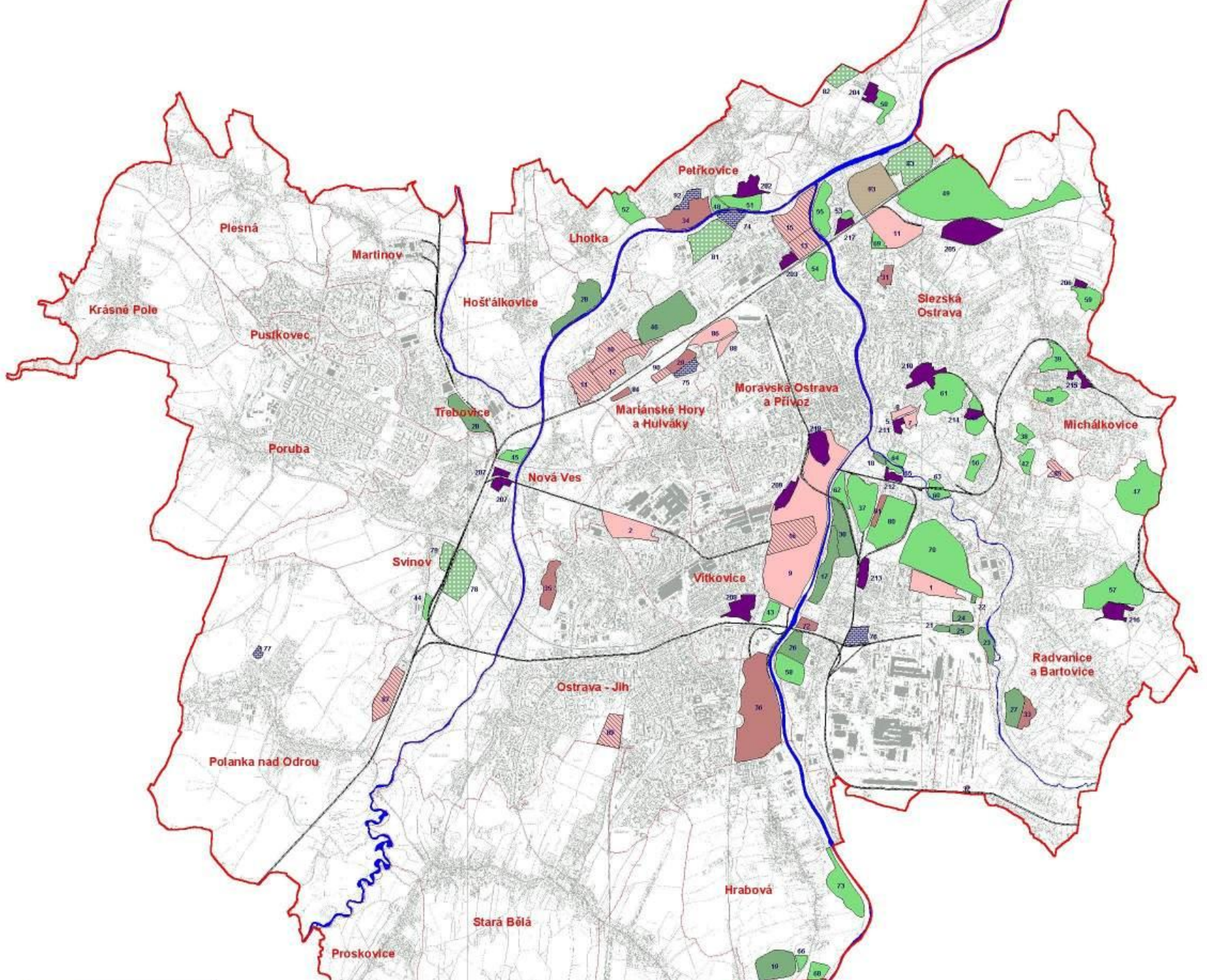


# Introduction

- Brownfields awareness - history
- Brownfields issue in CE countries – need for education
- Lifelong educational projects supported by Leonardo da Vinci Active Educational Programme
- Pilot project LEPOB (**L**ifelong **E**ducational **P**roject **o**n **B**rownfields)

# BROWNFIELDS

- Brownfield sites are underused urban areas, generally dating from the first phase of industrialisation.
- In Europe that ranges from 1800-1914 in Britain, 1870-1940 in Germany, and 1900-1970 in much of eastern and southern Europe.
- Industrial technologies changed, the shift to road transport displaced rail transport, and the old industrial zones turned into idled and abandoned properties.
- These sites were then available for urban development projects, usually with negative effects.







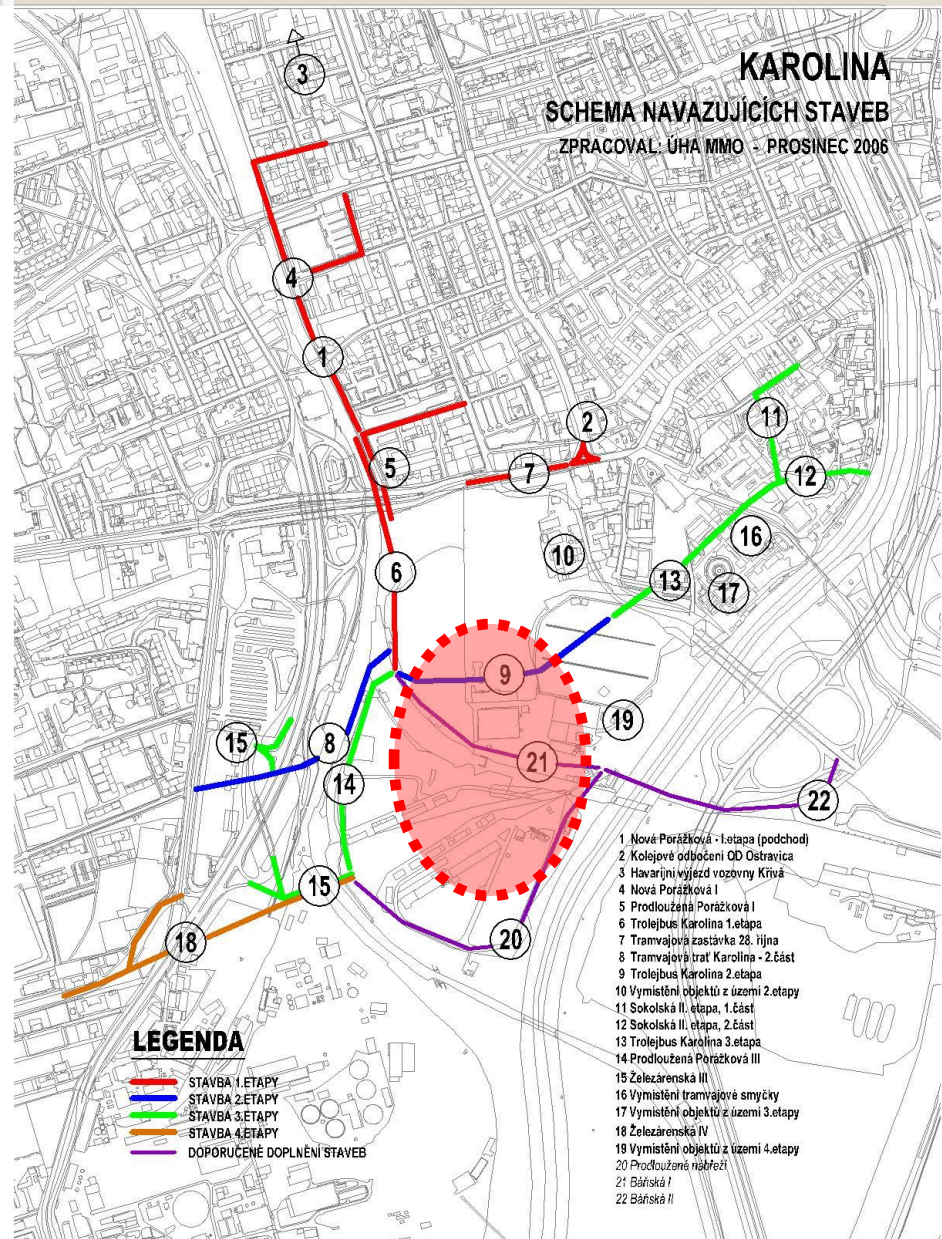
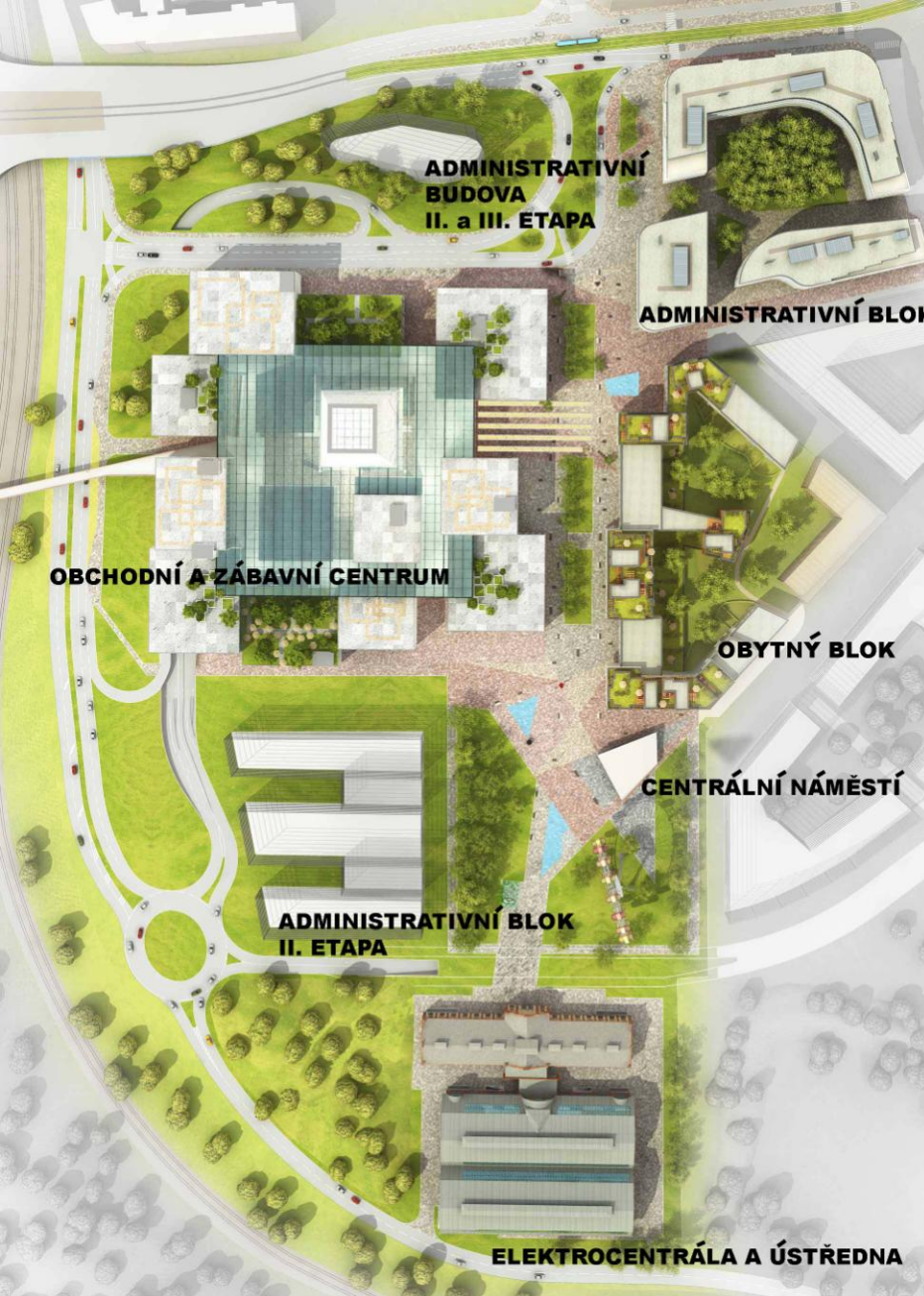














# Short history

- Research on brownfields of the industrial city of Ostrava – brownfields inventory (VSB-TUO)
- USA–CR know-how on brownfields started in 1998 (US-CE Linkage Programme)
- Comparative study of V4
- Educational Campagne on Brownfields
- Leonardo da Vinci educational projects

# 1) Lifelong Educational Project on Brownfields

- Lifelong Educational Project on Brownfields – **LEPOB**, supported by Leonardo da Vinci Educational Programme
- pilot project LEPOB was elaborated within **2004**-2006 by 9 partners from CR, PL, SK, UK, GE (VSB-TUO was the leading partner)
- the LEPOB project was disseminated to Baltic countries in **2008**, to Balcan countries in **2011**



# Aims of the LEPOB pilot project

- **unfold** the brownfields issue by means of **lifelong education**
- focus the **educational methods** on CEC conditions and disseminate the expertise throughout local, regional and national levels
- create **multidisciplinary** educational products also in local language versions – **utilizing** project partners **experience** and outcomes of similar projects funded by EU
- **train** prospective trainers – take advantage of capability of universities
- **disseminate** the accredited Educational Programme through professional chambers
- create general **awareness** of brownfield issue in CEC



WP1 Progress report P1 16:00 20  
WP2 Progress report P1 16:00 20  
WP4 Progress report P7 16:20 20  
WP3 Progress report P6 16:40 20

WP 3 chapters missing to be supplied by UNOTT 4 July  
Shortened version to be circulated by 15 July  
Comments to be received by 31 July  
To compile and take on board comments by 31 August  
Copy editing to be sent by 3 September

**LEPOB partners**



# LEPOB project products

- Brownfields Generic **Handbook** of multidisciplinary substance - 12 chapters, 6 special fields, 100 pg.
- Brownfields **Course** of 6 special modules, 400 slides
- Training Teachers' Course, Teachers' Handbook of 30 pg., 3-days training session
- Project **website** [www.fast.vsb.cz/lepob](http://www.fast.vsb.cz/lepob)  
published Handbook and Course educational materials also in partners' language versions
- Library **Brochure** - promotional extract of the project
- Brownfields Handbook and Brownfields Course in local language versions

# LEPOB value, dissemination

- Integrated educational and **teaching package** for an area of expertise, which previously was not at all covered by any local educational tools
- Targeting onto practising professionals, in position to use and apply the **know-how transfer**
- Educational materials have supported **teaching programmes** at Technical universities (Ostrava, Bratislava, Gliwice)
- **dissemination** to Baltic countries (**BRIBAST**)













## 2) BRIBAST – Brownfields in Baltic States

supported by the LEONARDO DA VINCI action  
programme on vocational training in 2006/2008

### **Aims** of the project:

- Execute educational materials **utilizing** generic Brownfields **Handbook** of the LEPOB project
- **Update** LEPOB educational products and adjust them to the local conditions of Baltic partners
- Propose those **new materials** to professional bodies, municipalities and educational facilities
- Create a project **website to publish** the educational products



# Handbook and Course changes and improvements

- Individual chapters were **updated** and reorganized
- Some parts were **changed**
- Some parts were supplemented and **adjusted to Latvian and Lithuanian specifics**
- As the Handbook serves for self study, each chapter was introduced with the information what can the reader learn in the particular chapter and finished with a **system of questions**
- **Teaching Course** of brownfield regeneration was **revised** and divided into 8 modules with brownfields instructive game

# Brownfields Handbook

- **BRIBAST Handbook**

consists of 7 sections, in English, Latvian and Lithuanian language versions

Section 1: **Introduction**

Section 2: **Planning and Development**

Section 3: **Technical and Environmental section**

Section 4: **Legal and Liability section**

Section 5: **Economic and Management Aspects**

Section 6: **Financial section**

Section 7: **Social Issues and Participation**

- Handbook (cca 150 pg.) is a supporting material for the Teaching Course



# Demonstration Teaching Seminars

- Demonstration teaching seminars preceded the Teaching course, and become a **necessary feedback** for country specific information for the language versions of the Course
- BRIBAST demonstration teaching seminars were held in **Latvia** and **Lithuania**
- **Target groups:** practicing professionals, developers, public administration, civil servants, academics and students, wide public





### 3) BROWNTRANS project

*Leonardo da Vinci Lifelong Learning Programme Multilateral projects – Transfer of Innovation Project No 113101614, started in 11/2011*

- **Brownfields Regeneration Know-How Transfer**  
represents dissemination of the Lifelong Educational Project on Brownfields to Bulgaria and Romania
- **project partners:** **Slovak Technical University Bratislava**  
SKSI (Sl. Chamber of Civil Engineers)  
SAS (Slovak Architects Society), SK  
**VSB-TU Ostrava, FCE, CR**  
**IURS** (Institut for Sust. Dev. of Settl.), CR  
**Technical University of Iasi, RO**  
**Bulgarian Development Agency, BG**

# The project aims

- **Transfer of knowledge** based on preceding LEPOB and BRIBAST projects
- Updating the teaching materials and adjusting them according to Bulgarian and Romanian specifics
- Create a compact educational product in the field of brownfields in Bulgaria and Romania



# Outputs of the project

- Revised **Handbook**, translated into Bulgarian and Romanian languages enriched moreover of Polyglot glossary of terms
- Adjusted and modified Teaching **Course** and teaching manual using particular examples and the country specifics, simulation games
- Intensive one-day seminar and demonstration teaching **seminars**
- Brownfields regeneration **brochure**
- **Web page** [www.browntrans.vsb.cz](http://www.browntrans.vsb.cz)

# Transnational learning experience

- Learning **international vocabulary** - the English version of the educational materials can help users in orientation in the terms internationally used
- There is difficult to achieve **professional translation** of the subject into local language (proofreading is necessary)
- Teaching in English needs a certain **level of knowledge** from both sites
- The students' quality of knowledge of English differs, so the teaching needs to be **simplified**
- Visual and written materials makes **better understanding**
- Different **know-how level** in the multidisciplinary field may cause an unbalanced teaching





**Brownfields discussion**

# Conclusion

- History from 1998 by now – 14 years, 5 educational projects
- Current awareness – professionals, students, government
- Partnership for Czech Brownfields – involved students, public and private sector (workshops, seminars, conferences)





**recycling brownfields?**





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# Thank you for your attention

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