

Follow-up Activities in Republic of Serbia Towards Leaded Gasoline Phase-out

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INTRODUCTION

Current situation in Serbia:

- ❑ Total gasoline consumption by 2015. estimated 710.000-770.000 t
- ❑ According to the NEAP, phase-out expected by 2020.
- ❑ Recommended maximum lead content in gasoline:
 - 400 mg /l – leaded 0.13 mg/ l – unleaded
- ❑ Recommended vehicle emission levels – exist
- ❑ Limited legislation reinforcement due to:
 - Lack of equipment for exhaust emission control
 - Inadequate fuel quality for modern engines
 - Old vehicle fleet



Project goal & objectives

Goal:

- ❑ To contribute to the reduction of the leaded fuel use in Serbia, expediting its final phase-out
- ❑ Development of national action plans for the
 - Improvement of vehicle fuel quality
 - Reduction of vehicle emissions



Objectives

- To identify lead air concentrations indicating general lead exposure trends in the population of Serbia
- To understand the supporting and impending factors in phasing-out of leaded fuels
- Capacity building of decision makers, industry, and other actors involved in the lead life cycle, that would reduce its use
- Developing an action plan on phasing out of leaded fuel (consensus of stakeholders)
- Awareness raising of general public on negative environmental and health effects on leaded fuel utilization



Project activities

- **Component 1:** Report on Air Lead Concentrations in Belgrade
- **Component 2:** Sampling Strategy to identify prevalence of Elevated BLLs in Children in Belgrade
- **Component 3:** Harmonization with EU Legislation Assessment
- **Component 4:** Workshop with stakeholders on development / realization of the Action Plan
- **Component 5:** Public Awareness Campaign



1. Report on Air Lead Concentrations in Belgrade

- ❑ Currently in Belgrade – 16 air quality monitoring sites
- ❑ Report includes presentation of the following:
 - Lead and impacts on human health
 - Routes and exposure sources of lead
 - Air concentration levels in the city of Belgrade and control site over the last 20 years; a detailed description of the current circumstances
 - Conclusions
 - Recommendations and potential interventions



2: Sampling Strategy to identify prevalence of Elevated Blood Lead Levels in Children in Belgrade

- **Location:** City of Belgrade
- **Sample group:** children - aged 60-72 months
- living in Belgrade
- **Human samples:** capillary blood
- **Human assessment:** Questionnaire (parents)
- **Environmental samples:** Air samples taken on 16 monitoring sites in the City of Belgrade
- **Type of Study:** Cross-sectional
- **Units of measurement:** BLLs - $\mu\text{g} / \text{dl}$
Air lead - $\mu\text{g} / \text{m}^3$



3: Harmonization with EU Legislation Assessment (international experts and national counterparts)

- **Assessment** of the current level of compliance of national regulation on fuel quality with EU legislation and required changes to meet EU Standards:
 - Review of current legislation
 - Governmental initiatives with producers and distributors of leaded fuels
 - Monitoring capacities in Serbia for: fuel, emissions, compliance
 - Development of recommendations for an approach and time scale for phasing-out of leaded fuel implementation
 - Development – draft plan for realization of a “Phase Out Lead Action Plan”



4. Workshops/ Seminars / Decision making

- ❑ Stakeholder comments on Action Plan
- ❑ Establishment of a consensus through:
 - Steering panel (relevant stakeholders)
 - Round tables at various stages of a project, at least 4
- ❑ Holding a **SEMINAR**: promoting and disseminating the Action Plan
- ❑ **Governmental Decision Making**



5. Public Awareness Campaign

Aim: to raise the awareness of the need for phasing out of leaded fuels within government, stakeholders, decision makers

Instruments and actions:

- Leaflet designing and distribution
- Advertisements & media coverage through
 - Daily newspapers
 - Radio campaigns
 - Discussion forums
- Press releases



Institutions involved in the project realization, responsibilities

□ REC:

- Leading implementing organization
- Coordinating stakeholders' activities
- Narrative and financial report

□ **National Institute of Public Health:** Report on Air Lead Concentrations in Belgrade

□ **Belgrade City Institute of Public Health:** Public Awareness Campaign



Expected Results and Deliverables

- ❑ **A Report** – providing an understanding of the historical and current air lead concentrations and its potential impacts on the health of Belgrade's population (children)
- ❑ **Baseline data** of air lead concentrations for assessing the impact of phasing out of leaded fuel
- ❑ **Increased awareness** of the actions for lead gasoline phase-out and the activities that need to be undertaken
- ❑ **A Report** providing an understanding of the current circumstances supporting and impeding implementation of the phase out of leaded fuel
- ❑ **An Action Plan** developed and agreed upon through consensus opinion, including a time frame for steps to phase out leaded fuel
- ❑ **The Action Plan** has been presented to the Government for adoption
- ❑ **A Public Awareness Campaign** has been implemented



THANK YOU!



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