

<b>Program</b>	<b>Program international CORINT EUREKA EUROSTARS - E5164</b>
<b>Project Leader Institution (CO)</b>	DEKONTA - Cehia
<b>Project title (ENG):</b>	<b>Research and development of methods for persistent organic pollutants (POPs) elimination (POPELIM)</b>
<b>Project title (RO):</b>	<b>Cercetarea si dezvoltarea de metode pentru indepartarea poluantilor organici persistenti (POPs) (POPELIM)</b>
<b>Duration</b>	2010-2014
<b>Team Leader Partner 2</b>	Cristiana COSMA/Mihai STEFANESCU
<b>Summary</b> (short description) ENG	<p>The main objective of the project was to find and to implement performant technologies for the remediation of soils polluted with POPs (organochlorinated pesticides) embodied in efficient and innovative technologies. The remediation technology was established after laboratory and pilot tests (over 100 days in case of biological remediation pilot).</p> <p>In the pilot experimental conditions both stimulated bioremediation and remediation with iron powder are feasible options for the treatment of HCH and DDX polluted soils. These technologies assure HCH removal efficiencies over 90% after five months and in case of DDT derivates (DDX) over 99,9% after one month of remediation.</p>
<b>Summary</b> (short description) RO	<p>Principalul obiectiv al proiectului a fost descoperirea si implementarea tehnologiilor performante de remediere a solurilor poluate cu POPs (pesticide organoclorurate) concretizate in tehnologii eficiente si inovative. Tehnologia de remediere a fost stabilita in urma testelor la nivel de laborator si pilot (peste 100 de zile in cazul pilotului de remediere biologica).</p> <p>In cazul experimentelor la nivel pilot de remediere biologica si remediere cu pulbere de fier acestea s-au dovedit variante fezabile de tratare a solurilor poluate cu HCH si DDX. Aceste tehnologii asigura indepartarea HCH cu un randament de peste 90%, dupa cinci luni si a DDT-ului si derivatilor sai (DDX) cu peste 99,9% dupa o luna de tratament.</p>
<b>Dissemination of results</b>	
Conferences (platform, poster, abstract / full-paper)	<b>Stefanescu M.</b> , Bumbac C., Cosma C., Zidkova L., Physical-Chemical Remediation of HCH and DDX polluted soils in Romania, <i>Simpotion "Sino-European Symposium on Environment and Health"</i> , <b>2012</b> , Galway, Irlanda
	Bumbac C., <b>Stefanescu M.</b> , Zidkova L., Dobre D., Cosma C., Enhanced bioremediation of soils polluted with persistent organic pollutants, <i>Simpotion "Sino-European Symposium on Environment and Health"</i> , <b>2012</b> , Galway, Irlanda