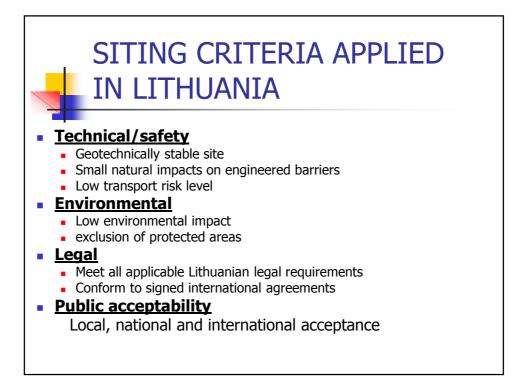


## Planning

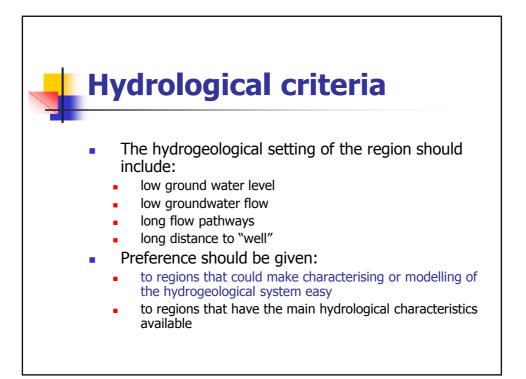
- Pursuant to the IAEA recommendations the sitting of a near surface repository may be divided into four stages:
  - conceptual and planning stage
  - area survey stage
  - site characterisation stage
  - site confirmation stage

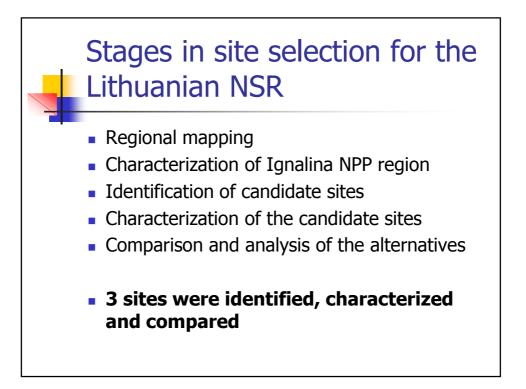


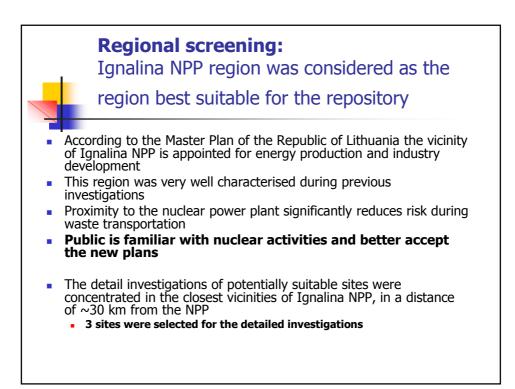
## Assessment of geotechnical, hydrological, tectonic risks

Criterion	Effect	Riskiness			
Slope stability	Strong break of cells	Highest risk			
Settlement	Break of cells	Moderate risk			
Flooding	Water intrusion into cells	Moderate risk			
Fectonic (seismic)	Slight break of cells	Least severe consequences			

Main technical site exclusion criteria and desirable site features							
for site Topographical features	Possibility for flooding of foundation	Surface inclination is sufficient and water can drain away into a surface water body. Preference should be given to a big hill.					
	High erodability	High resistance to erosion – relatively smooth site, shallow water flow speed v is below the critical speed $v_{cr}$					
Geotechnical stability	Unstable slopes (safety factor $F_{\tan\phi}$ is less than 1.3)	Slope stability of friction material; safety factor $\mathbf{F}_{\tan \varphi} > = 1.5.*$					
Geotechnical stability	High compressibility of bottom bed (high volume compression coefficient $\beta$ )	Compressibility, compression strength, shear strength, internal friction angle and stiffness (E-modulus) of bottom bed shall comply with requirements for massive constructions*.					
	High liquefaction	<ol> <li>Low pore water pressure.</li> <li>The maximum seismic intensity on the MSK scale &lt; =6.</li> </ol>					
	Bad constructability	Feasibility of excavation					
	Variety of ground features	Homogeneous ground					
Hydraulic conductivity	High hydraulic conductivity (filtration coefficient <b>k</b> is bigger than $10^{-5}$ m/s)	Low hydraulic conductivity. It is desirable that filtration coefficient ${\bf k}$ is less than $10^{-7}$ m/s or even $10^{-9}$ m/s*.					
Impact from natural phenomena	1. Unfavourable climate 2. Unfavourable hydrological conditions	<ol> <li>Low and steady groundwater level. It is desirable that groundwater level is at least 3 m below bottom barrier*.</li> <li>No risk of being flooded.</li> </ol>					
Transport risks	Long distance to Ignalina NPP, transportation of waste through big settlements and protected or recreational territories.	<ol> <li>Vicinity to Ignalina NPP.</li> <li>Favourable infrastructure and logistics.</li> </ol>					

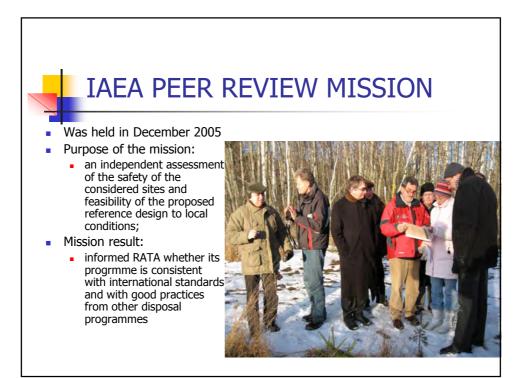




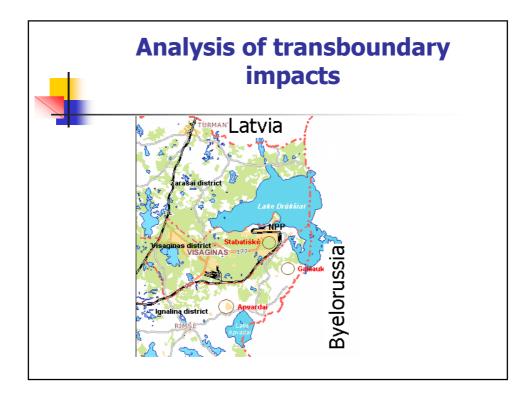








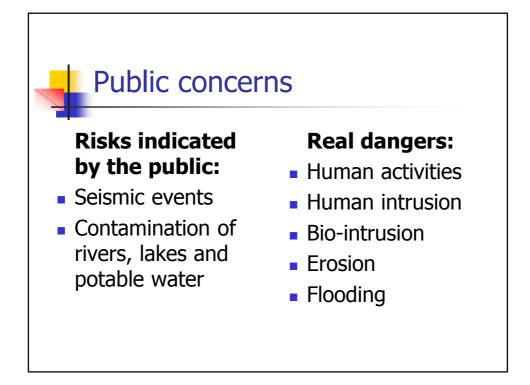


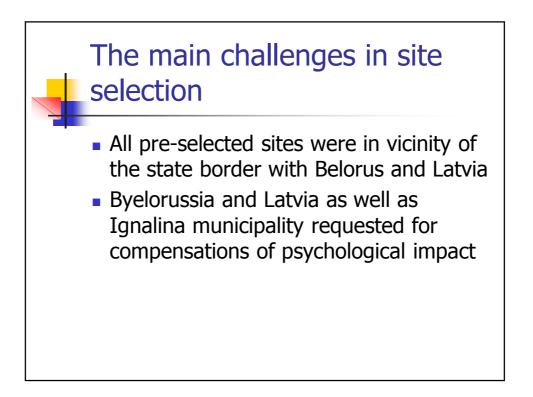


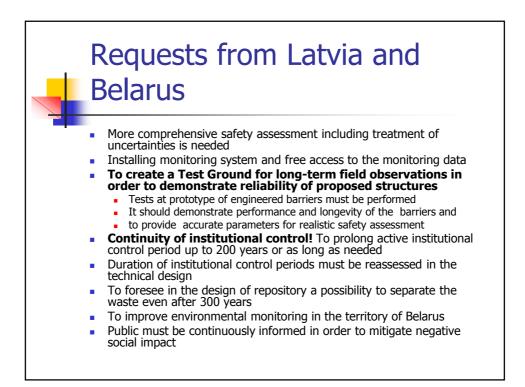


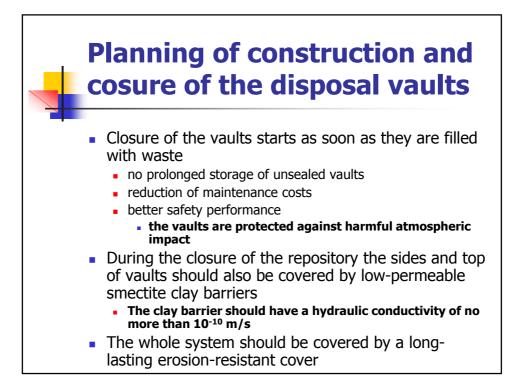
- Lithuania Latvia and Belarus are members of the Convention on Environmental Impact Assessment in a Transboundary Context (Espoo, 1991)
- The Ministry of Environment of Lithuania informed the counterparts in accordance with the Espoo Convention

	Public information during the EIA process						
-	September 2006	Public hearing in Visaginas, Lithuania					
	December 2006	Public hearing in Daugavpils, Latvia					
	December 2006	Public hearing in Braslav, Belorus					











- to prevent intrusion,
- to perform monitoring and surveillance
- to confirm the satisfactory performance of the repository by monitoring,
- to perform remedial actions, if necessary



	Initial project implementation schedule Reasons for the delays										
No.	Activities\Years	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
1	Conceptual and planning stage			1	$ 1  \rightarrow 1$	1	1	)		line e	$r \sim q$
2	Area survey stage		ji -		1.				-		
3	Site characterization stage						1		2.11		
4	Government decision to design the NSR	14 h F- 1			*		-	1		1	1
5	Site confirmation stage			1			1			1	
6	Environmental impact assessment			131		_	-		1.1	1. E.	E.
7	Basic design of the NSR			1-1		-					
8	Preliminary Safety Analysis Report			1	1	-					-
9	Complex expertise of basic design			1	1.71			-			
10	A permit for the construction	1111221		12.	0.21	1		*	100	200	
11	Detailed design of the NSR	n de set	1	171	121	h		1			
12	Construction		1.000		221						
13	Commissioning	111		1	1-1						0
14	Final Safety Analysis Report	1411-1	11	1 - 1	111			1			-
15	Start of operation		1		6.771				1		

