



Content

- What is the discount rate?
- How to determine the level of the discount rate?
- Discount rates elsewhere and suggested discount rate

16 mei 2011



What is the discount rate?

- The discount rate used in the financial analysis should reflect the opportunity cost of capital to the investor. This can be thought of as the return on the best alternative project
- It is used for future values, i.e. costs and benefits, which are discounted to the present
- Example: discount rate of 5%. 1 EURO in year
 1 is worth 1/(1,05) = 0.907 EURO in year 0

16 mei 201



Time factor and discount rate

- The marginal utility of 1 EURO today is bigger than the marginal utility of 1 EURO tomorrow
- Example: discount rate of 5%. 1 EURO in year 1 is worth 1/(1,05) = 0.907 EURO in year 0

16 mei 2011 Registratien



How to determine the level of the discount rate?

- Minimum opportunity costs of capital: benchmark for a public project=return on G'ment bonds
- Maximum limit value: return lost from the best investment alternative, i.e. through a portfolio of securities in the international financing market
- 3. <u>Cut-off rate:</u> use simple rule-of-thump approach, i.e. interest rate on EIB bonds

16 mei 2011



Factors affecting the discount rate

- The Member State's specific <u>macroeconomic</u> conditions
- The <u>nature of the investor</u>: for instance, the discount rate can be higher for PPP projects, where the inclusion of private funds may increase the opportunity cost of capital
- The <u>sector concerned</u> (e.g., transport, environment, energy, etc.)

16 mei 2011



Discount rates elsewhere

Sector	Country	Discount mie	
Transport	Espana	5	
Transport	Espana	6	
Transport	Espana	6	
Transport	Espana	6	
Transport	France	8	
Environment	Lituania	3	
Environment	Poland	5	
Environment	Poland	5	
Industry	Portugal	10	
Energy	Portugal	11	

16 mei 2011 Registratienn



Suggested discount rates

- The Commission recommends that a 5% financial discount rate is used as an indicative benchmark for public investment projects cofinanced by the Funds
- The downwards revision compared with the 2000-2006 programming period reflects changing macroeconomic conditions in the EU

16 mei 2011



Consistent discount rates

- It is of utmost importance that consistency is ensured amongst the discount rates used for similar projects in the same region/country
- The Commission encourages the Member States to provide their own benchmark for the discount rate in their guidance documents. This reference must then be applied consistently

16 mei 2011

