



Time Horizons in Models: A Decision-Maker's Perspective

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Summary



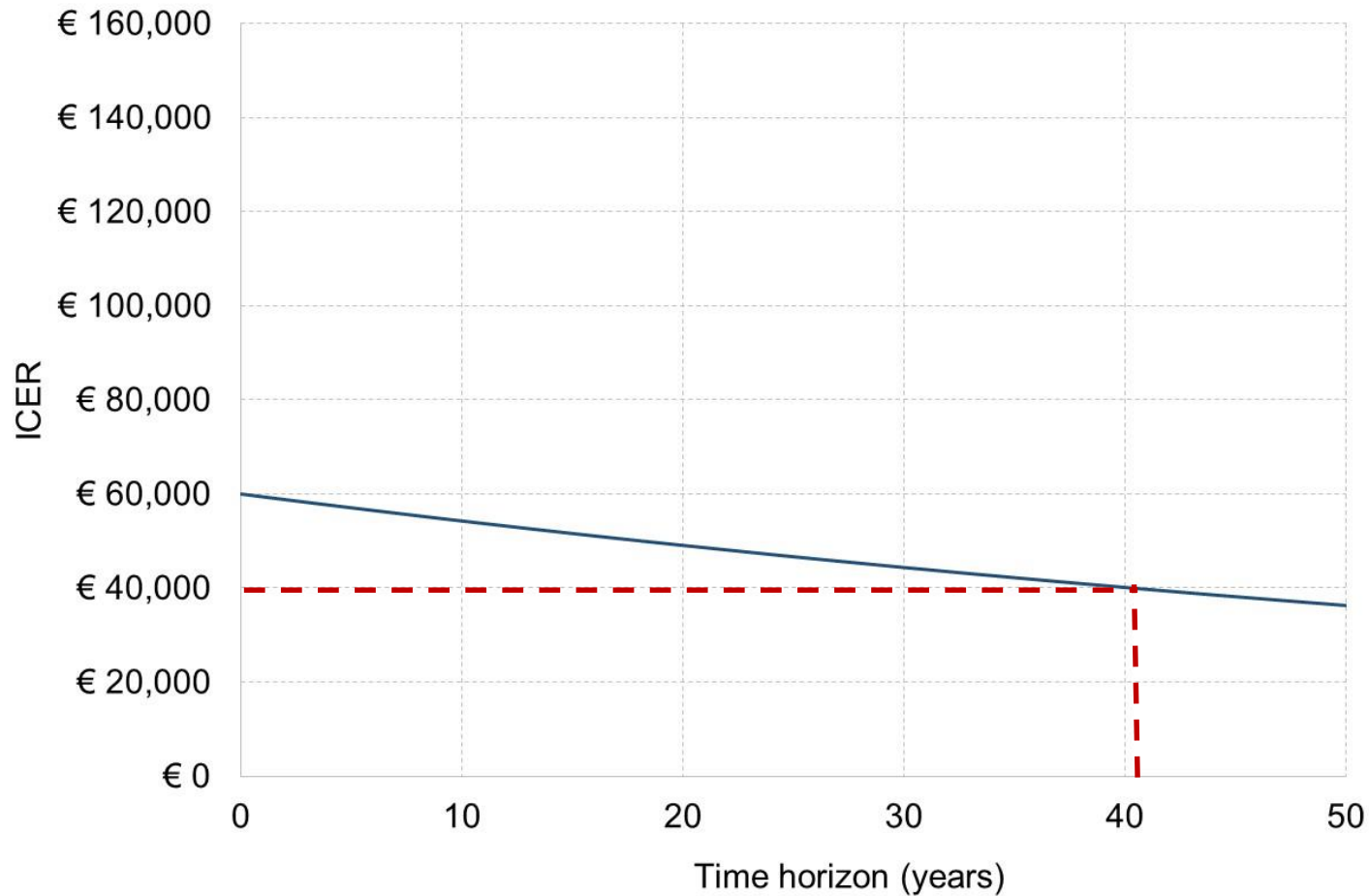
- Decision-making
- Accounting for uncertainty
- Differentiating between effects and consequences
- Barriers to uptake

Decision-making

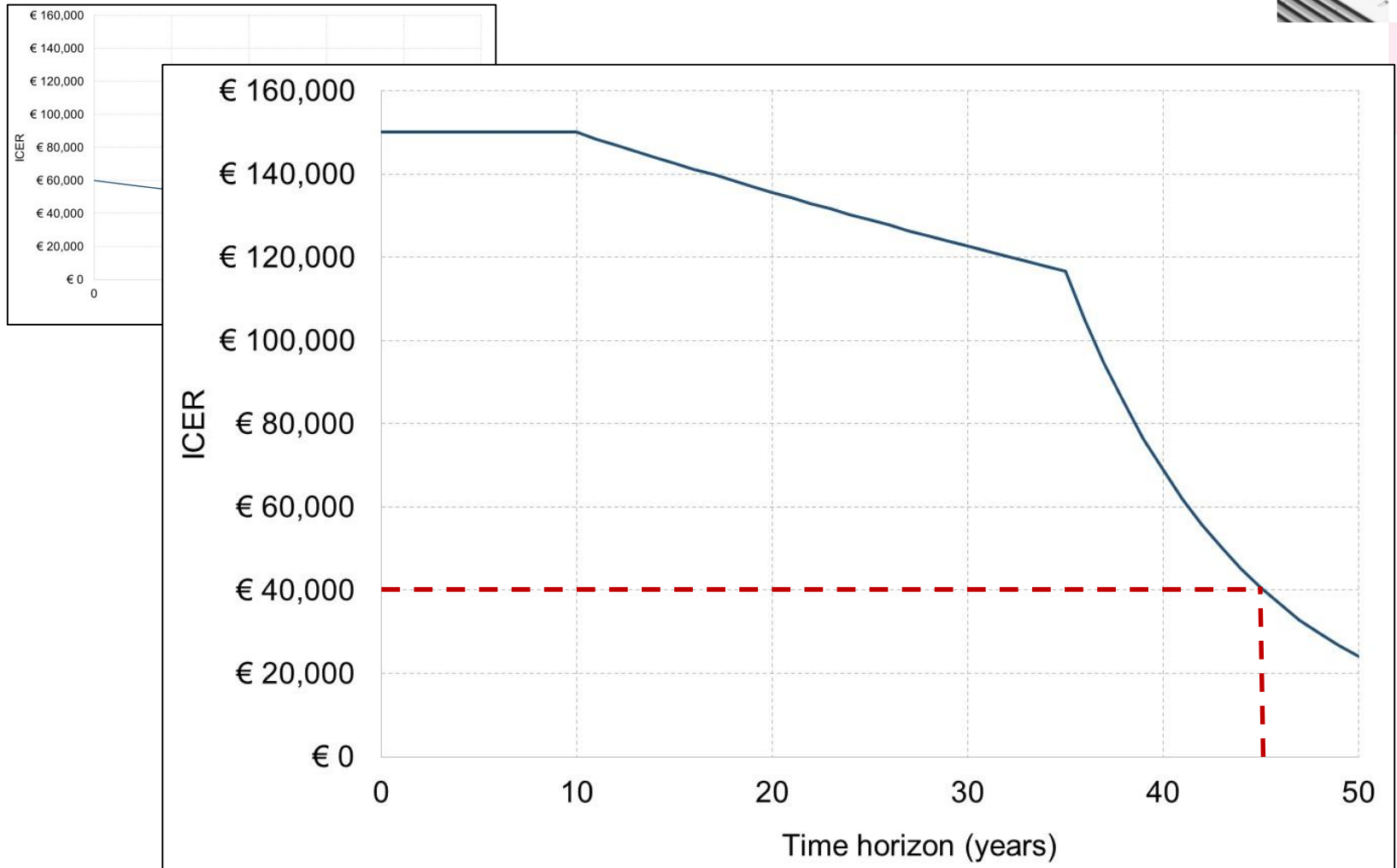


- All models are wrong, etc.
- ICERs from models are one single factor in the process
- What is the question that we're asking?

ICERs over time



ICERs over time



Now... and then



Pay today

Benefits

2016

2026

2036

2046

2056

Cheap
alternative?

Disease
mutation?

Cure?

Reflecting uncertainty



- Never really captured in sensitivity analysis (deterministic or probabilistic)
- Discount rates?
- But... these are consistent across all therapeutic areas
- Greater uncertainty → higher discount rates?
- What will the value of λ be in 40 years' time???

Effects and consequences



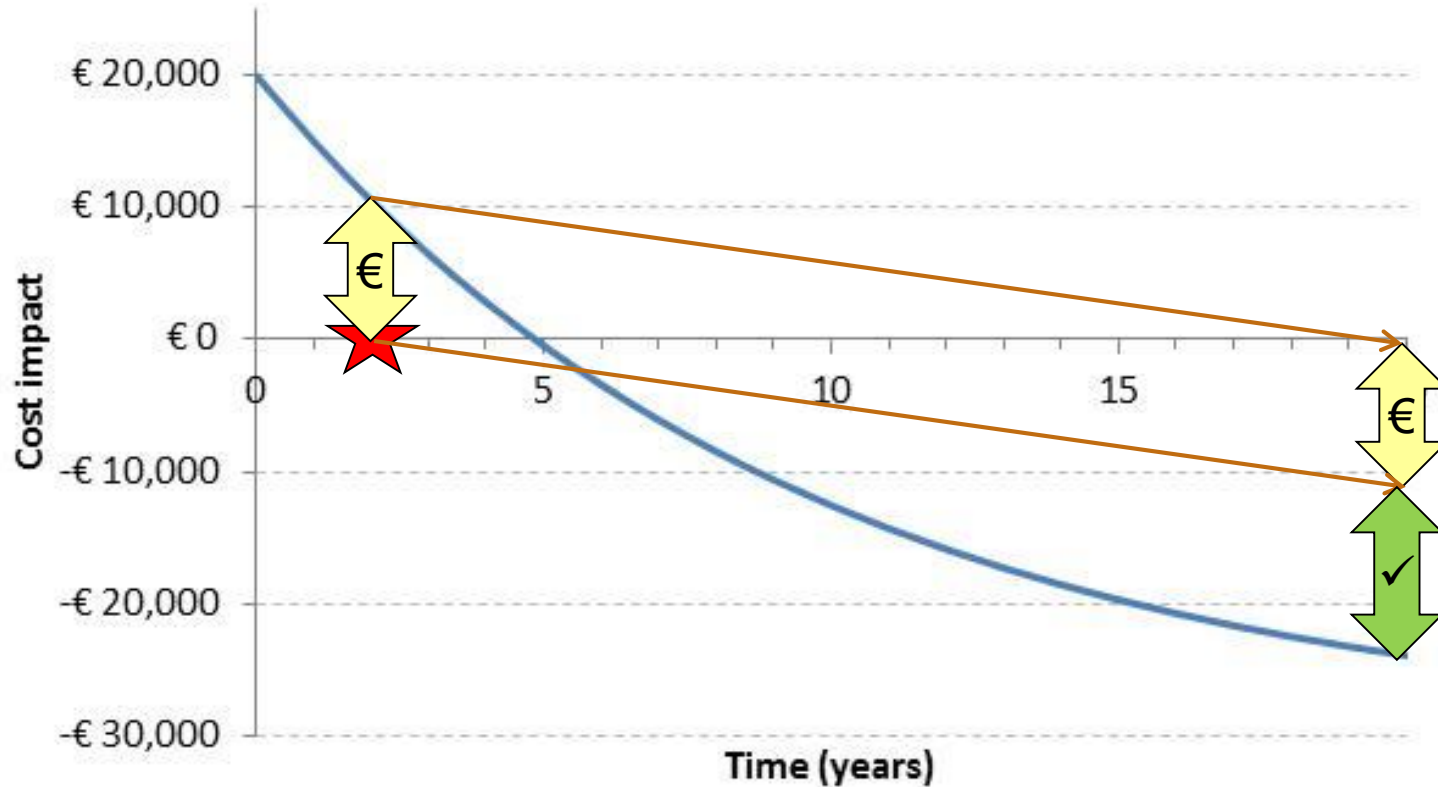
- Extrapolating the effectiveness of therapies introduces substantial uncertainty
 - Not always adequately captured through sensitivity analysis (very mathematical in approach)
- The *consequences* of an effect are usually more certain – and will often be long-term
 - e.g. a death averted in the short-run will have long-term consequences on QALYs
- Sometimes, effects and costs are constant

Barriers to uptake

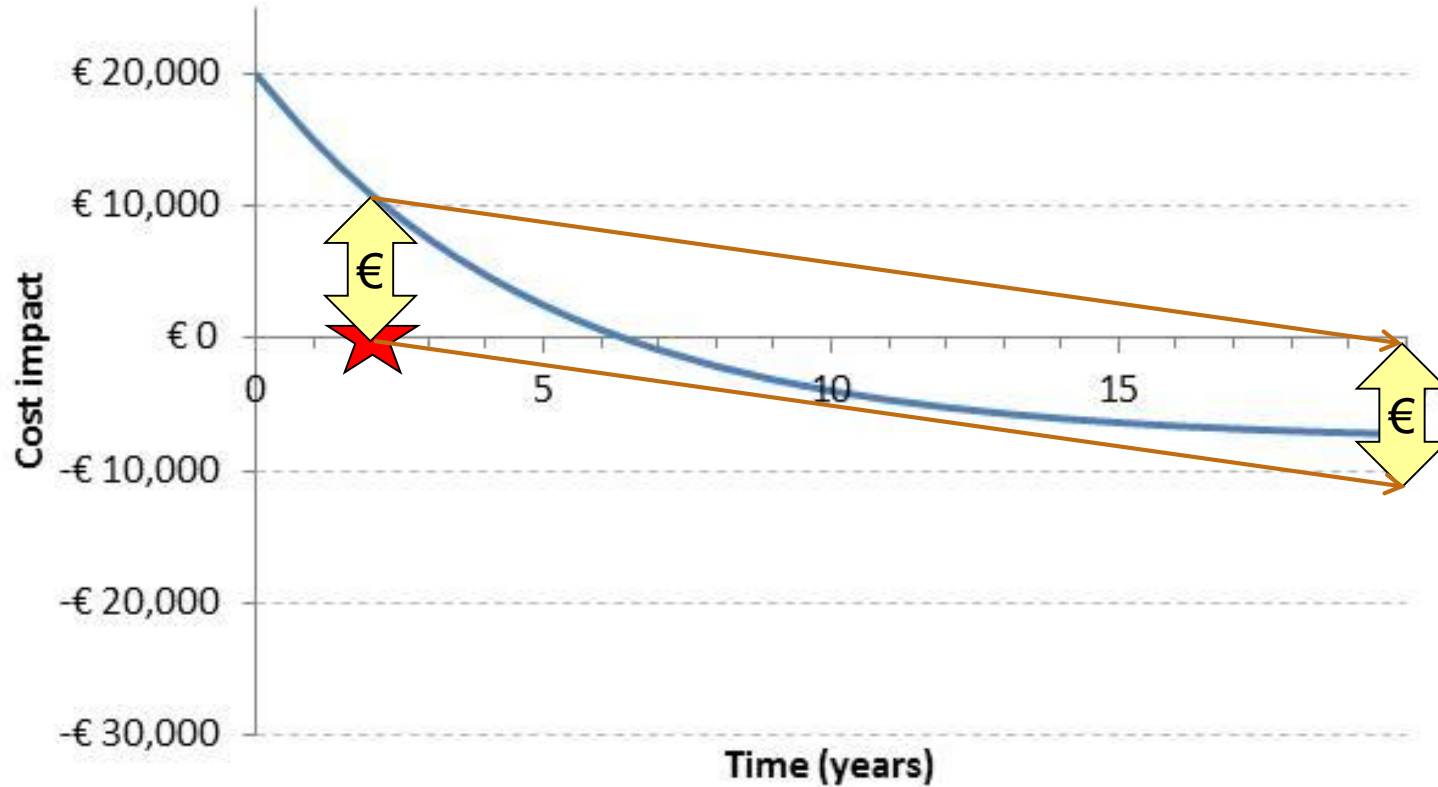


- Even when interventions are cost-effective in the long-run, uptake is slow (or non-existent)
- Incentives to local decision-makers
- Short-term budget goals
- Being transparent about results at different time points can help this discussion

Barriers to uptake



Barriers to uptake



Summary again



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Thank you

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