

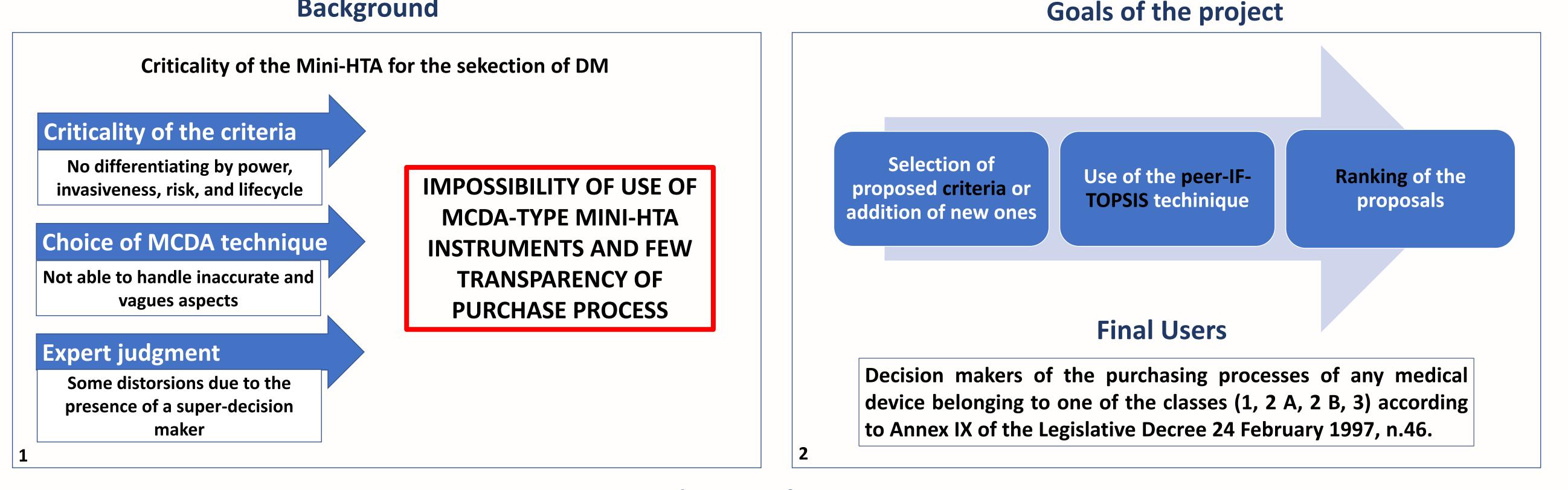
MINI-HTA for *Medical Device* (MD) purchase **Between efficiency and effictiveness**

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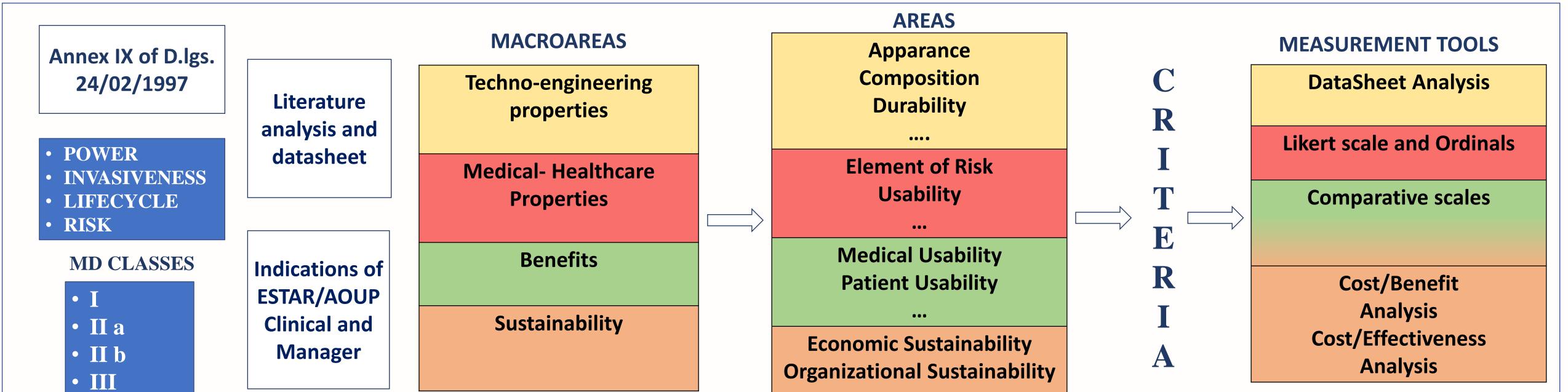
CIRHTA - University of Pisa

INTERNATIONAL **CLINICAL ENGINEERING** AND HEALTH TECHNOLOGY MANAGEMENT CONGRESS

Background



Selection of criteria



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CHOISE OF WICDA MELHOU				
AHP		vs	IF-TOPSIS	
PRO	CONS		PRO	CONS
Criteria and sub-criteria	Time consuming		Criteria and sub-criteria	Non-weighted decision-
Ease of use	Limited pair comparisons		Overcoming subjectivity	making skills
Easily achievable results	Calaculations complexity		Overcoming imprecision	Absence of organizational consent
Unique numerical	Subjectivity of judgments		Overcoming vagueness	
result				SOLUTION

Choise of MCDA method

Data collection and peer-based-IF-TOPSIS implementation

Each decision maker votes the importance of the others and all opinions, even personal options, are combined in an overall judgment

Construction of the «aggregated weighted IF decision matrix». Intuitionistic fuzzy positive-ideal and negative-ideal solutions

Calculation of the promixity coefficient relative to the ideal solution. **Classification of the different alternatives based on the decreasing order of** the relative proximity coefficient.

Contributions made

Reducing waste in terms of both time and economic resources Ease of use on all MDs **Transparent and weighted purchasing processes**



5





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peer-to-peer version