## Iterative Quantification of Categorical Criteria for Enhanced Job Seeking







## Introduction:

- ➤ Many decision making tools use the Weighted Sum Method (WSM) to rank options by weighted criteria and numerical values.
- > Real-world decisions, such as purchasing a house or seeking employment, also involve qualitative criteria like neighbourhood desirability or company culture.
- > How can we integrate and evaluate these qualitative criteria within decision rankings?

	Quantiative Criteria (normalized to 0-1)			<b>Qualitative Criteria</b>	
	Price	Commute Time	Space	Home Type (Single-family home, condo, townhome)	WSM Score
Weighting	0.45	0.2	0.1	0.25	_
House A	0.8	0.4	0.4	?	?
House B	0.6	0.7	0.2	?	?
House C	0.4	0.6	0.5	?	?

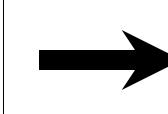
We cannot calculate weighted sums because there are no scores for the levels of qualitative criterion.

## What do job-seekers say about their decision process?

"I don't think I would want the decisions that sort of made



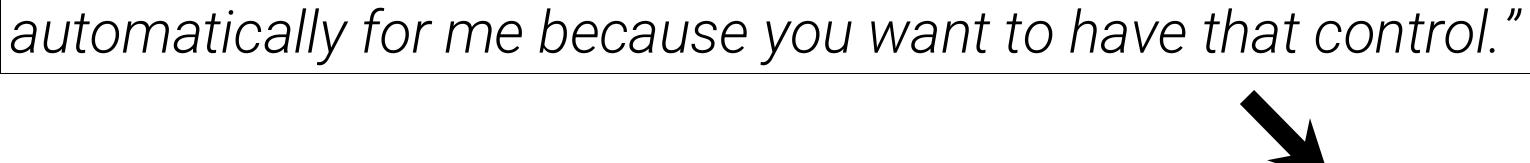
"I would look location. Another was the years of experience that required. I would also look what's the values of the company."



Richness and diversity of criteria including qualitative ones.

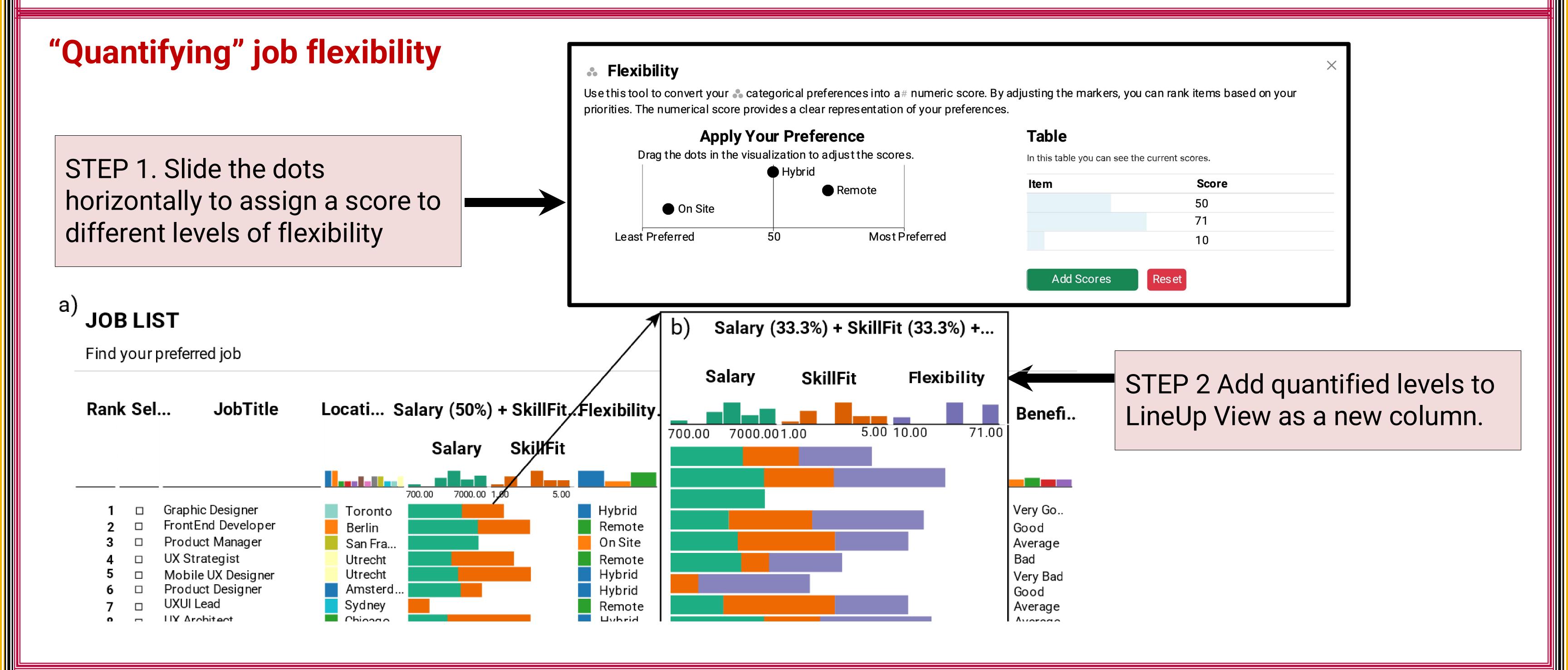


"I use mostly LinkedIn and searching. I also write down all jobs in Google Sheet to track them."





Highly data-oriented and interactive needs, but only list-based or basic tabular formats to support them



## Conclusion:

- > The non-equidistant attribute scoring widget enabled job-seekers to express their preferences for qualitative criteria and revise their decision strategies to explicitly include these factors in their option rankings.
- > Design challenges remain for widget placement, attribute scalability and industry specific factors in job search.