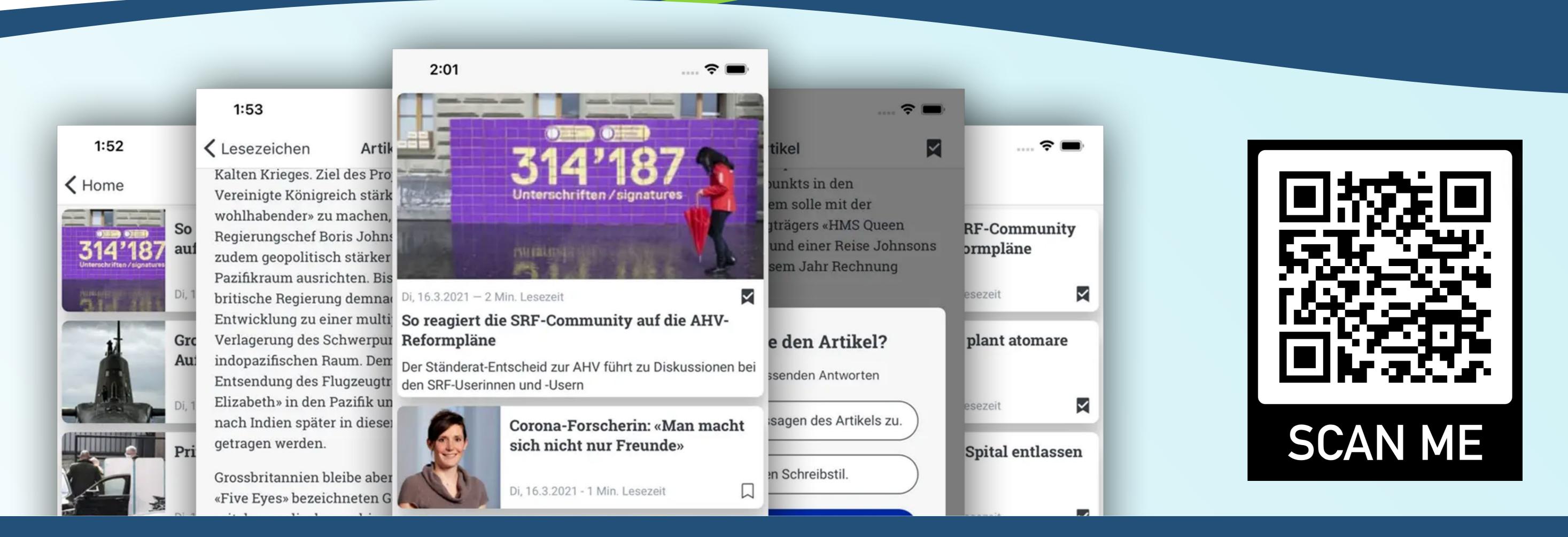
## Deliberative Diversity for News Recommendations: Operationalization and Experimental User Study

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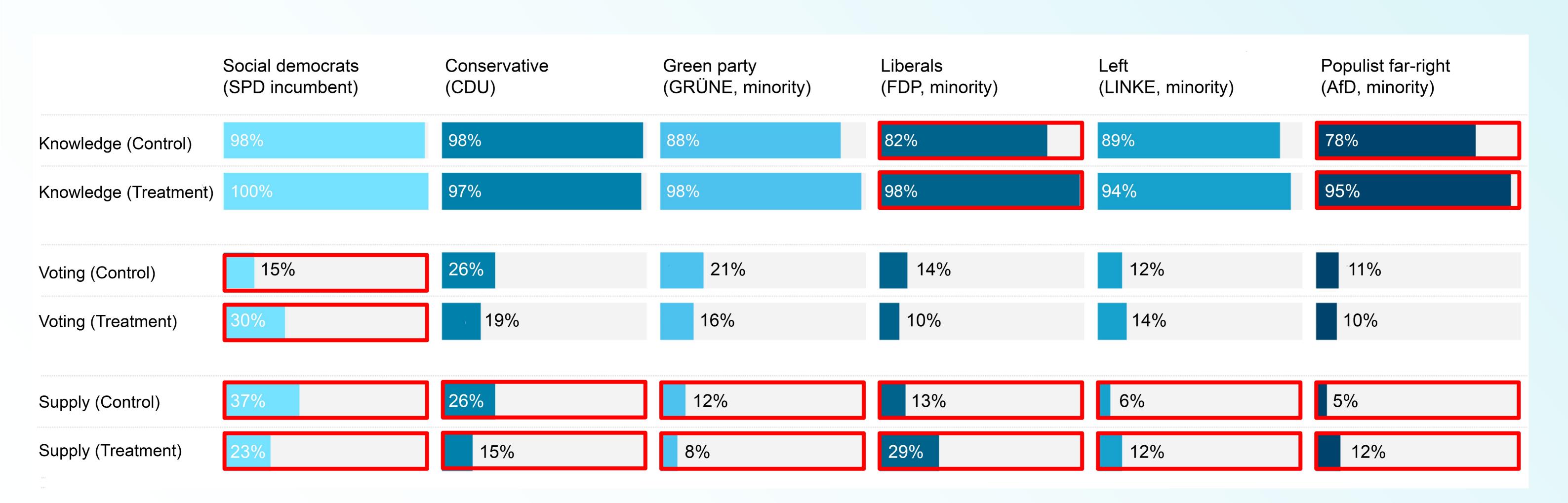


RQ: How does varying party visibility in news recommendations affect users' party preferences?

		RECOMMENDER SYSTEM				GROUPS		OUTCOME		
								Implicit Feedback	Explicit Feedback	
News Articles	<b>→</b>	ContentSkip to site indexPoliticsSubscribeLog InSubscribeLog InToday's PaperAdvertisementSupported  Who Criticized Trump Person in Texts, Is FiredImagePeter Strzok, a top F.B.I. GPE counterintellig	$\rightarrow$	Temporal	$\rightarrow$	Control (n=65)	$\rightarrow$	Reading	Knowledgeability,	
		investigation after his disparaging texts about President Trump PERSON were uncovered, was fired. (TimesBy Adam Goldman ORG and Michael S. SchmidtAug PERSON . 13 CARDINAL , 2018WAS PERSON , the F.B.I. GPE senior counterintelligence agent who disparaged President Trump PERSON oversee the Hillary Clinton PERSON email and Russia GPE investigations, has been fired for violating said Monday DATE .Mr. Trump and his allies seized on the texts — exchanged during the 2016 DATI Lisa Page — in PERSON assailing the Russia GPE investigation as an illegitimate "witch hunt." Mr.	$\rightarrow$	Diversity Model	$\rightarrow$	Experimental (n=78)		Behavior (In-App)	Voting Behavior (Questionnaires)	

We conduct a field experiment prior to federal state elections in Lower Saxony, Germany (elections on October 9, 2022). N=143 participants were recruited to use our custom news app <u>Informfully (www.informfully.ch)</u> during the state election campaigns. Participants were randomly distributed to the control (news as published) or treatment condition (overexposure for minority parties, using a diversity model).

## Selected Results from the User Study



We show the capacity of NRSs to <u>increase knowledgeability</u> of minority parties among participants in the treatment group. Results suggest an <u>inverse relationship</u> between party exposure and party support (voting behavior). The supply of political news to control and treatment group showed a significant difference for all parties (values in percentage, all significant results highlighted red).

