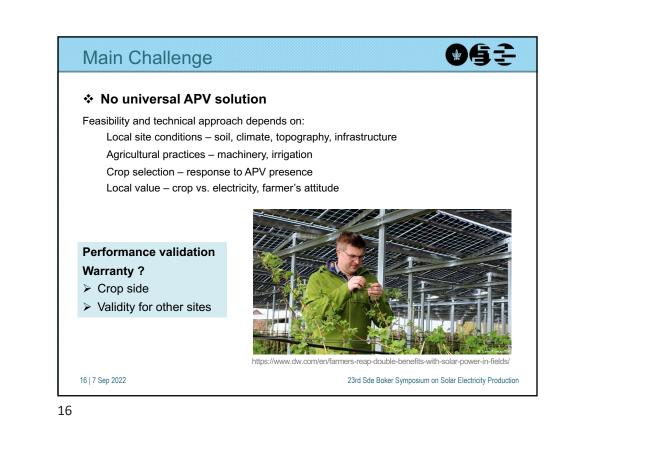
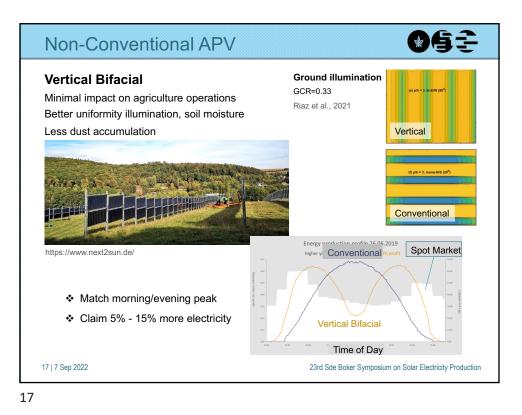
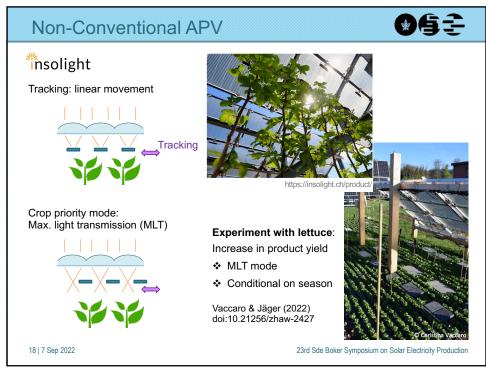
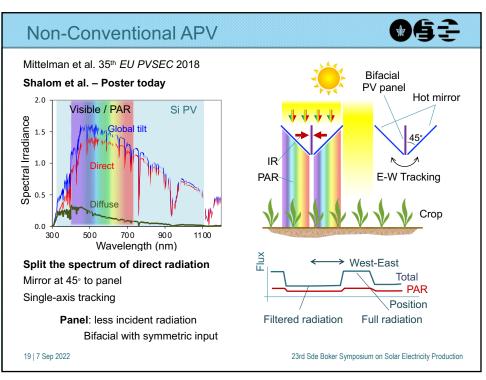


Regulation		<b>9</b> 52
Threats in wide adop	tion of APV	
Reduction in crop pr	roductivity	
<ul> <li>Electricity replaces a</li> </ul>	agriculture	
Germany DIN	SPEC 91434 (2021)	
Crop yiel	$d \ge 66\%$ of reference yields without solar	
France AFNO	R (2021)	
Crop yiel	$d \ge 80\%$ of reference yields without solar	
Italy CREA/ G	SE/ ENEA/ RSE (2022)	
Agricultur	e land area ≥ 70% of the total project area	
Annual e	<b>lectricity</b> $\geq$ 60% of a standard solar plant	
15   7 Sep 2022	23rd Sde Boker Symposium	on Solar Electricity Production
5		









APV Status &	Future	øg€
Science base incom	plete	
Especially on cro	p side	
Insufficient long-t	erm experience	
No standard / prefer	red PV configuration	
Copying standard	PV — ? — Original ideas	
Unclear economics		
Extra costs (supp	orts, lower GCR…)	
Difficult to evalua	te crop side	
Land shortage pr	edicted but not accounted	
	Need more: Research	
	Innovative configurations	
	Long-term field experience	
	Regulatory / financial rules	
20   7 Sep 2022	23rd Sde	e Boker Symposium on Solar Electricity Production