



FORUS

# Promoting solar energy in Finland

# AGENDA

## PROPOSED TOPICS

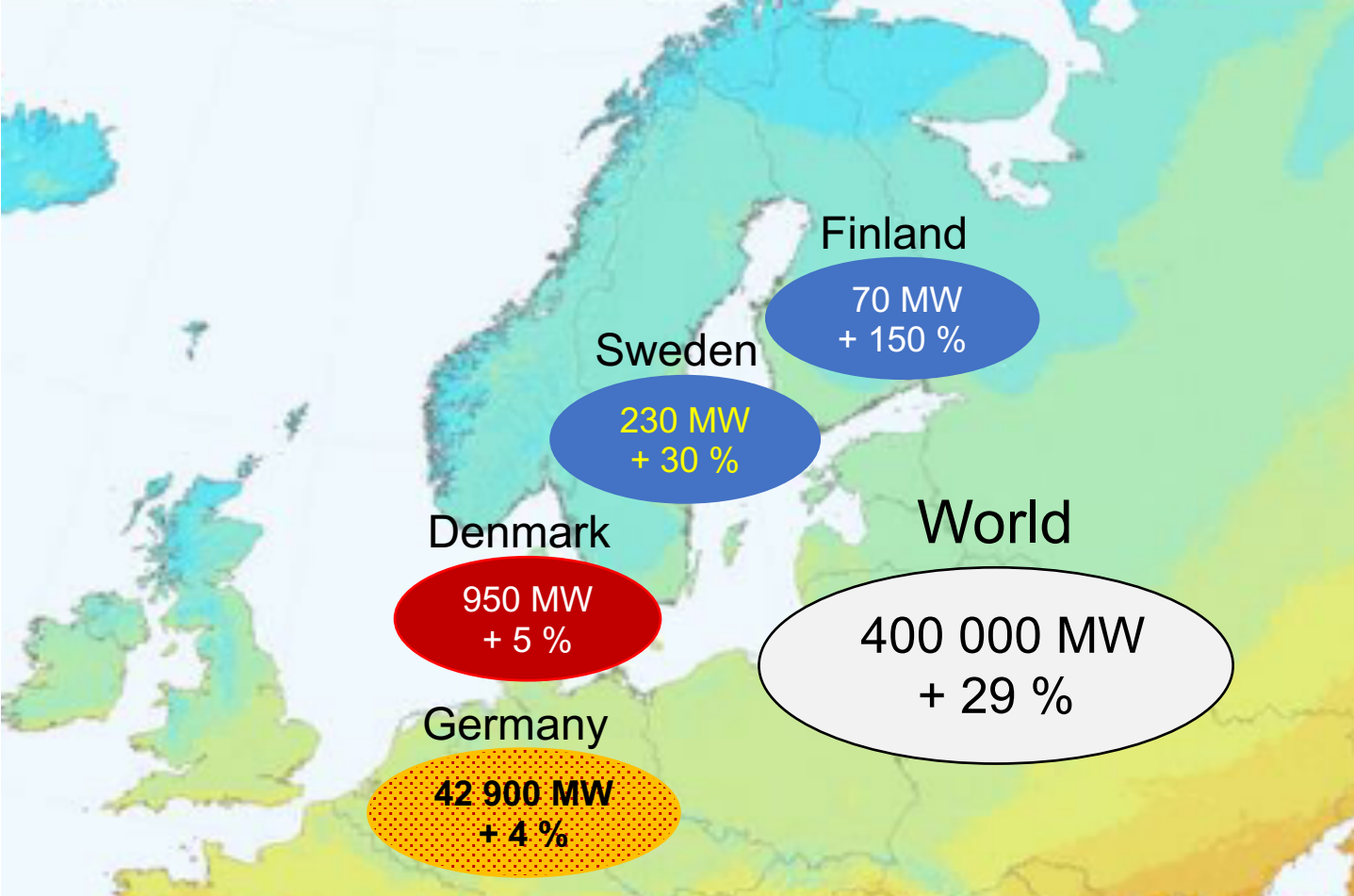
- Solar energy in Finland
- Ways of expansion?
- Main players?
- Social innovations in promoting solar energy in Finland?



## MAIN FOCUS

Decreasing cost of solar  
for companies

# SOLAR POWER IS GROWING IN FINLAND



## DESCRIPTION

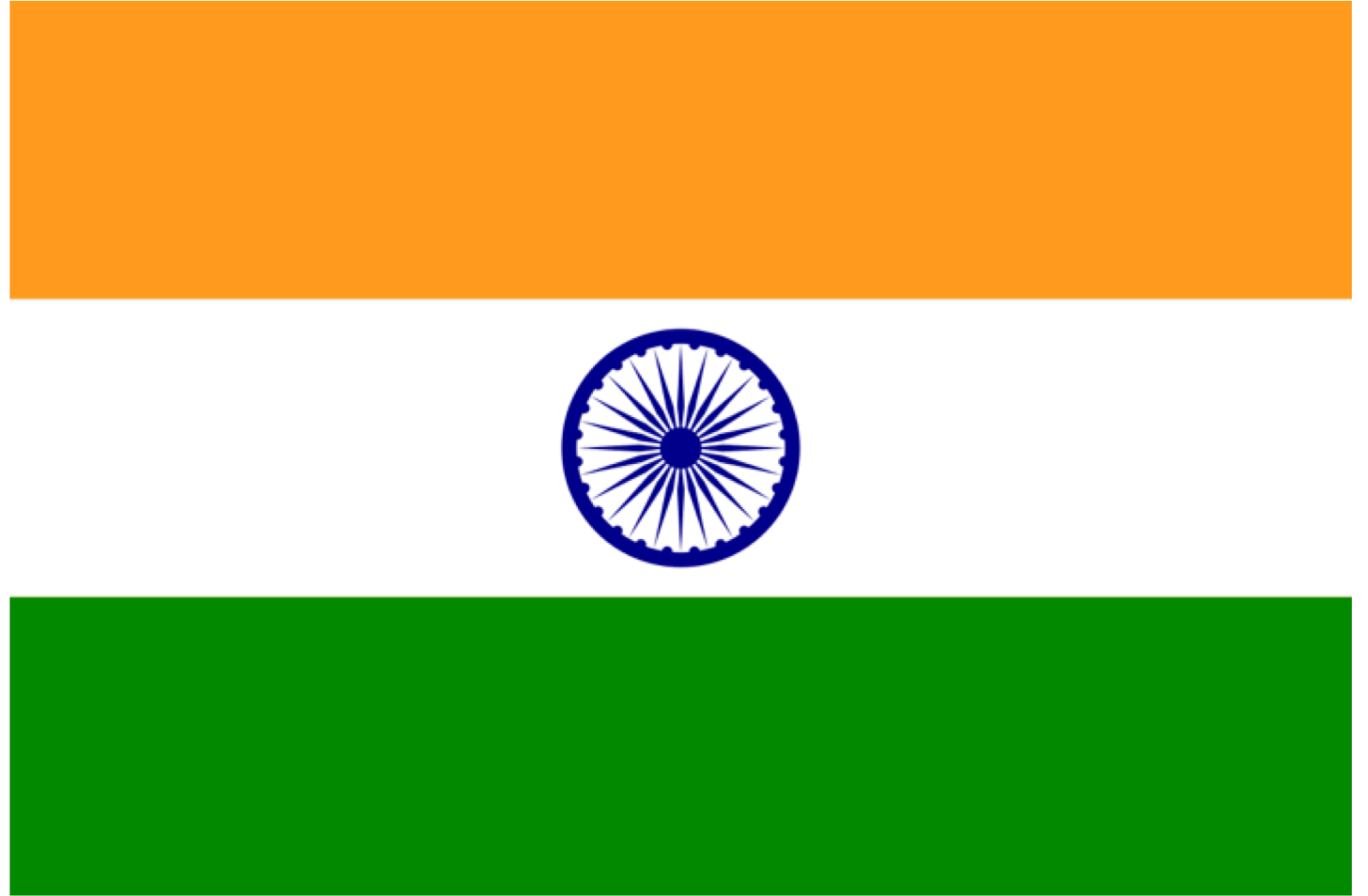
Installed power (MW) 2017,  
Annual growth 2017

Source: IEA 2016

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# IDEAS FOR INDIA

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# FACTORS OF SOLAR ELECTRICITY PROFITABILITY 1MW PPA

	FINLAND	INDIA
Price of the powerplant	0,7€/Wp	0,54€/Wp
Degradation (average good modules)	0,3-0,7%	1,33 %
Lifetime	25 - 40 years	25 Years
Maintenance cost	5 - 10€/MWh	5,4 €/MWh
Price of electricity for industry	68,3€/MWh	58,5 €/MWh
Solar electricity output	880 MWh	1750 MWh
Corporate interest rate	5,5 %*	13 %
Additional: taxes and land cost	small	?
Risks	small	bigger
IRR, 0% interest, 20 years	< 8,3%	<< 15%
Payback, with national interest	> 13	>> 14 years

\*seen in the market

# OUR RECOMMENDATIONS



# SUMMARY

- 1 **Methods:** Various methods are needed to expand fast.
- 2 **Contract:** Each risk should be taken by the one who knows it the best.
- 3 **Technology:** All terrains need unique solutions.

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