Status of SRI in India and Challenges Ahead

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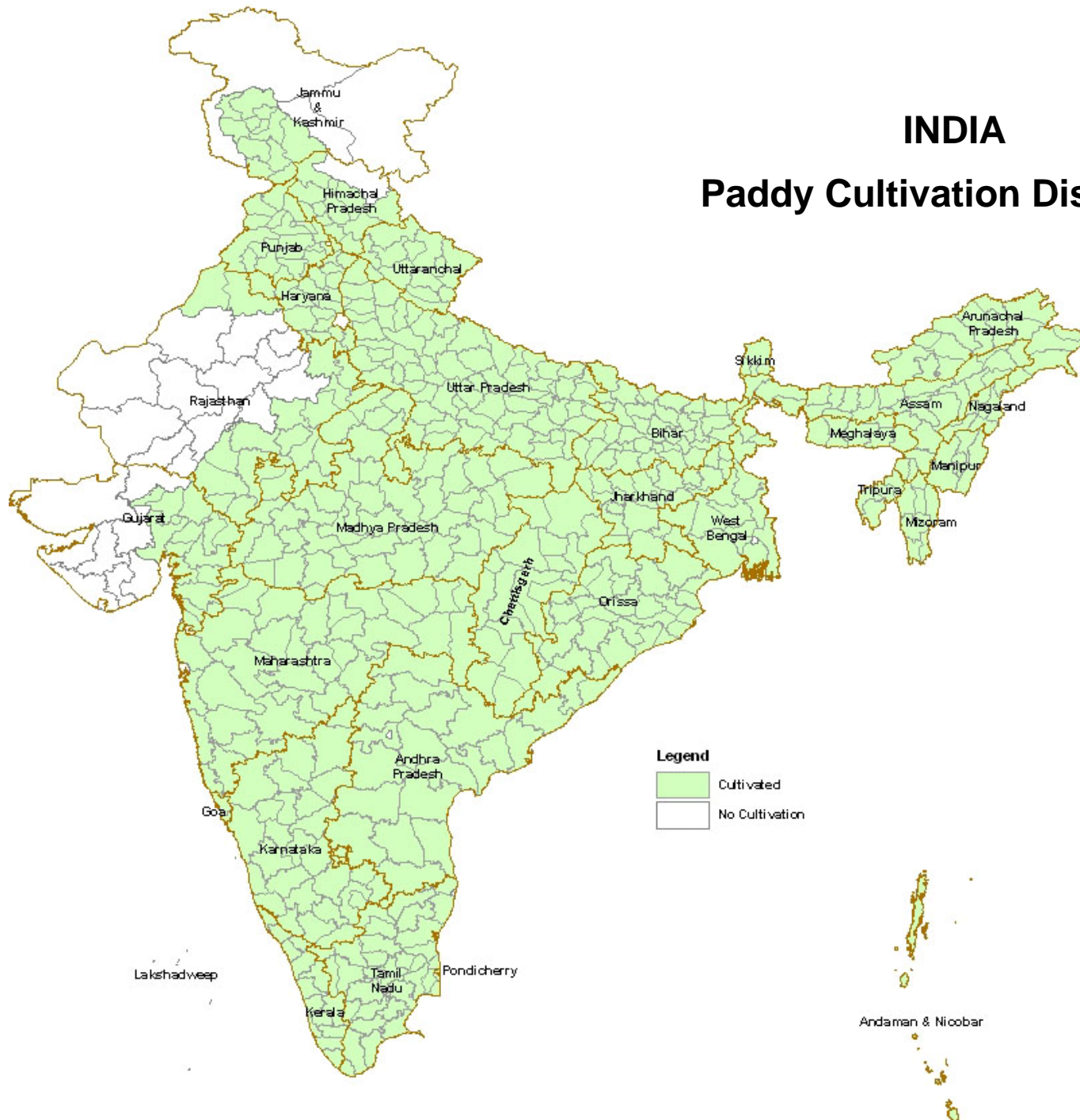*Senior Policy Advisor, WWF-International, Gland, Switzerland*
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INDIA

Paddy Cultivation Districts
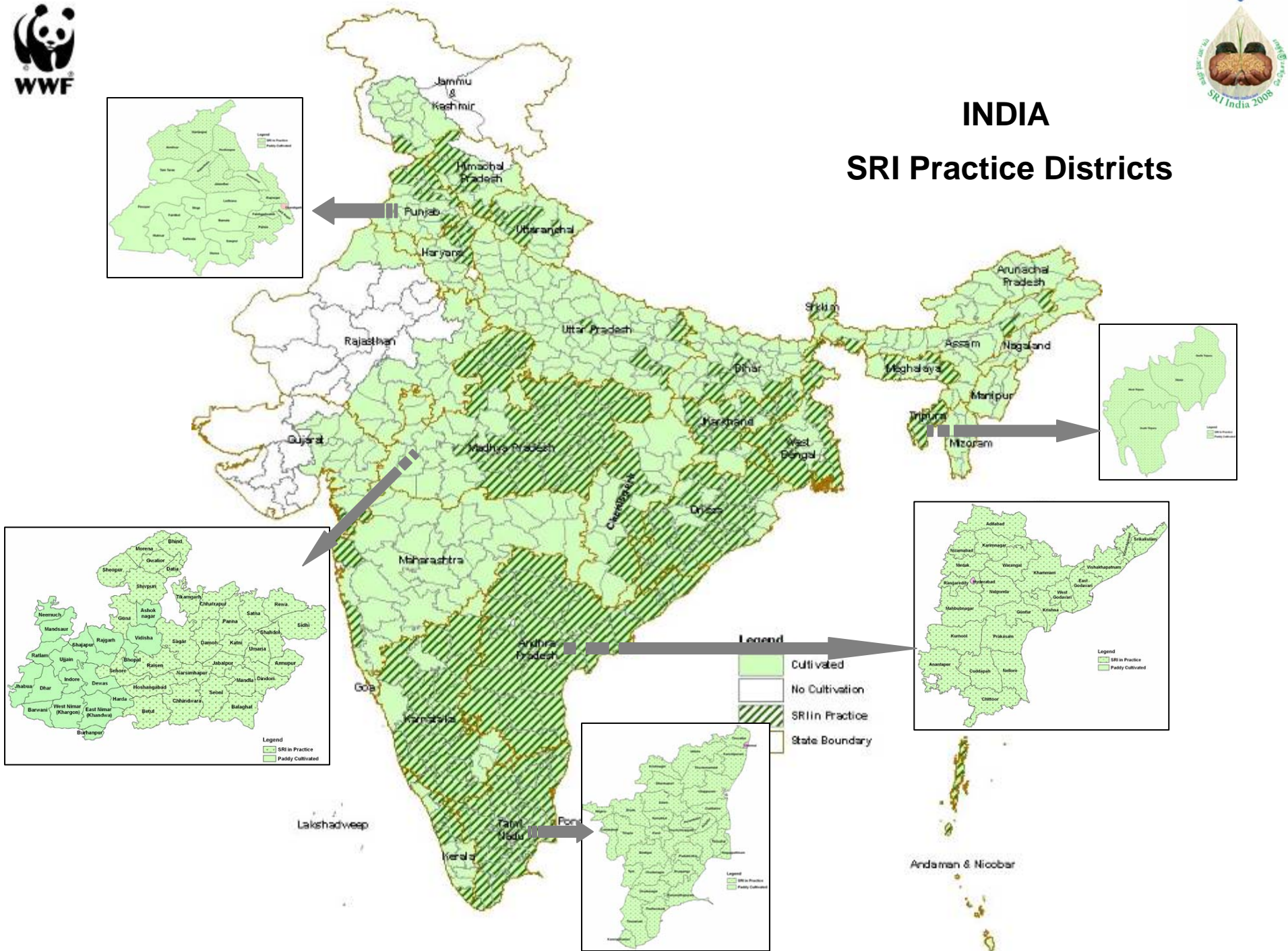
Legend

Cultivated

No Cultivation

SRI in India: Where are we now

- SRI is started in about 218 districts -- out of total of 564 rice-growing districts
- SRI is started in all rice-growing states
- And in all agro-climatic zones
- With all types of farmers (>50 ha to 0.2 ha)
- Part of national and state initiatives
- 54 of these SRI districts are among the designated 133 NFSM rice districts

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SRI Practice Districts

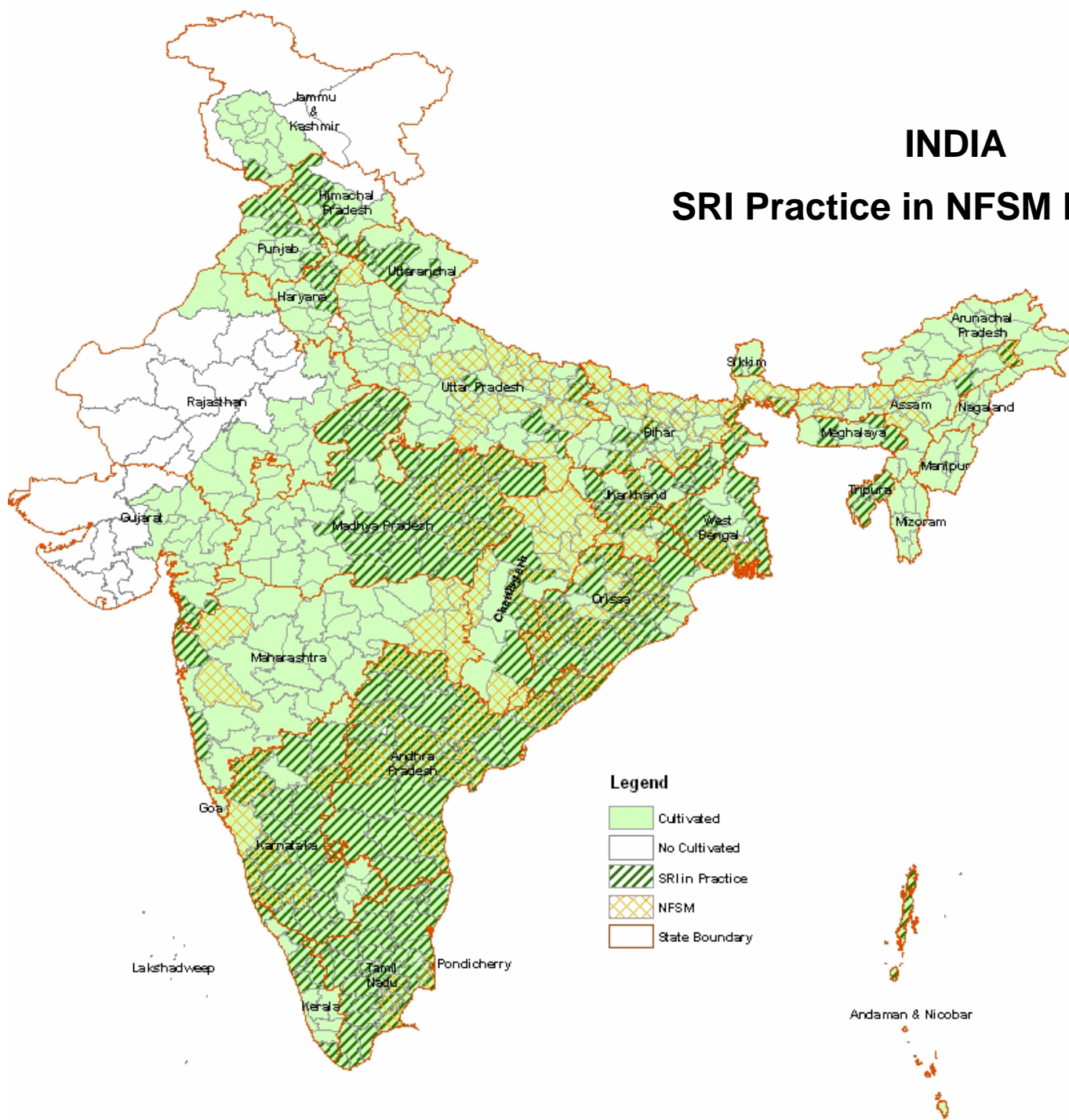Legend
Cultivated
No Cultivation
SRI in Practice
State Boundary

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SRI Practice in NFSM Districts

Legend

- Cultivated
- No Cultivated
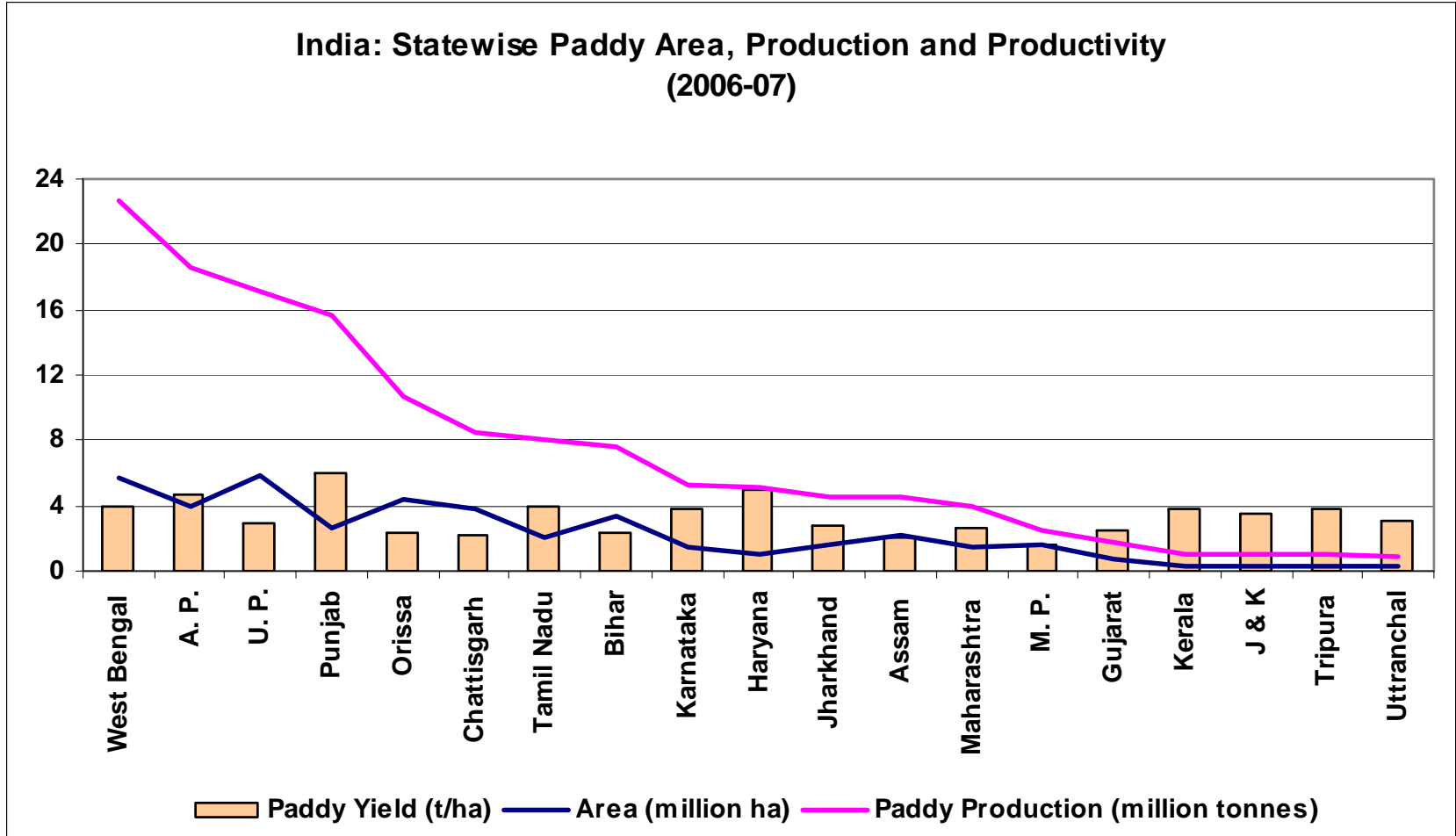- SRI in Practice
- NFSM
- State Boundary

SRI: What we know..

- Increases production and factor productivity

- Decreases the need for water input

- Less inputs and lower cost of production

- And other benefits

India: Statewise Paddy Area, Production and Productivity (2006-07)

Legend: Paddy Yield (t/ha) — Area (million ha) — Paddy Production (million tonnes)

States (left to right): West Bengal, A. P., U. P., Punjab, Orissa, Chattisgarh, Tamil Nadu, Bihar, Karnataka, Haryana, Jharkhand, Assam, Maharashtra, M. P., Gujarat, Kerala, J & K, Tripura, Uttranchal

Raw data from DRD, Patna

SRI: Where we want to go

- Cover all rice-growing districts
- At least 20% of rice area by 2015?
- Reduce the water input by at least 30% of current national level?
- Produce enough more paddy to meet the projected demand

Productivity range of paddy cultivation in India, 2006-07

Productivity Range of Paddy in India (2006-07)			
Yield (t/ha)	No. of Districts	Area (000'ha)	Production (000'tonnes)
< 1	33	444	369
1 - 1.5	56	3,139	3,957
1.5 - 2	61	4,626	8,198
2 - 2.5	106	8,646	19,343
2.5 - 3	68	4,559	12,528
3 - 3.5	58	5,294	17,038
3.5 - 4	65	5,944	22,516
➢4	106	11,235	55,257
Total	553	3,887	139,206

We still need to ..

- Know the full potential of SRI practice
- The constraints to utilization(and reasons for disadoption where this occurs)
- Improving the tools and implements
- Know the role of subsidies/support
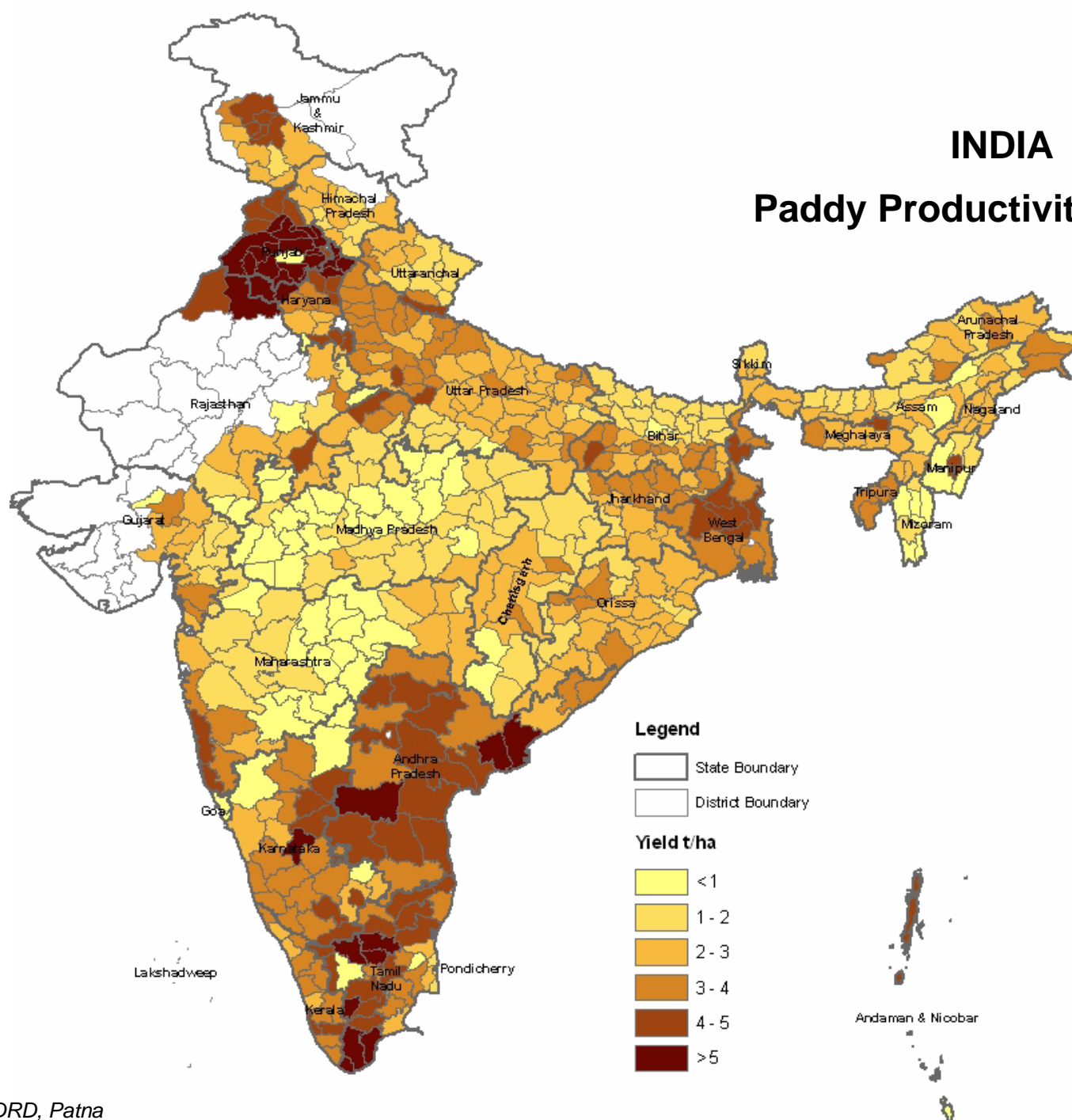- Long-term sustainability
- This will require more research

Way forward...

- By 2015, 20% of rice-producing area under SRI, producing180 million tons of paddy, with at least 30% water-saving
- Learning from all this experience
- Institutional support mechanisms
- Private sector participation
- Developing markets for SRI produce
- Improving ecosystems' sustainability

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Paddy Productivity Range

Legend

State Boundary

District Boundary

Yield t/ha

< 1

1 - 2

2 - 3

3 - 4

4 - 5

> 5

Raw data from DRD, Patna

Thank You

*More **paddy** from less **water***