

TRENDS AND PATTERNS OF TECHNOLOGY ADOPTION IN RICE FARMING



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Objectives

- To describe the pattern in awareness and adoption of the recommended rice farming practices and technologies
- To identify the most and least adopted practices and technologies



Data

Wet Season

2006

2011

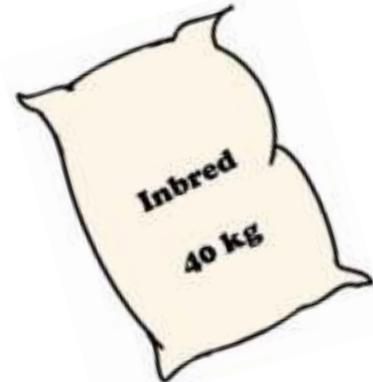
2016



LAND PREPARATION

No high/low soil spots after leveling

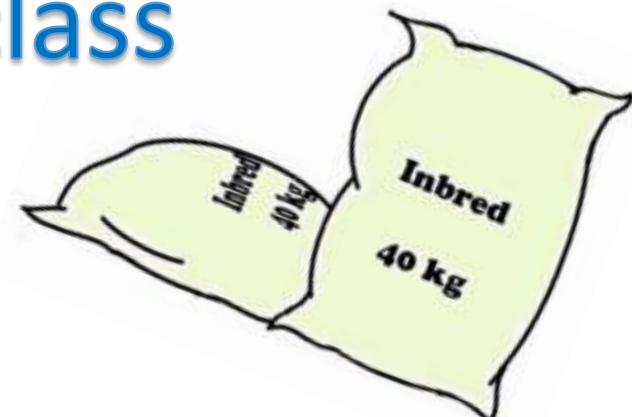




CROP ESTABLISHMENT

Inbred: 40 kg or less seeding rate for transplanted rice per hectare for all seed class

Inbred: 80 kg or less seeding rate for direct-seeded rice per hectare for all seed class





400 sqm. seedbed size per hectare





Straight row planting (20x20cm)





Use of drumseeder for direct-seeded rice





NUTRIENT MANAGEMENT

Minus-one element technique(MOET)





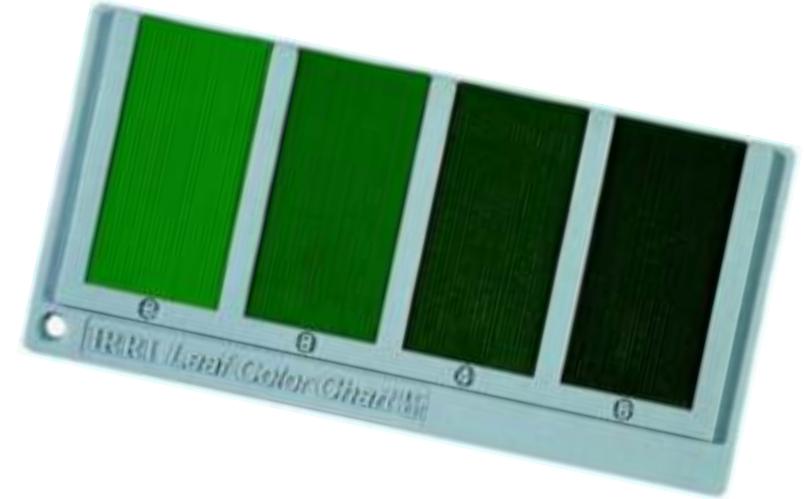
Basal fertilizer application





Organic fertilizer application





Leaf color chart (LCC)





WATER MANAGEMENT

Controlled irrigation



HARVEST MANAGEMENT

Thresh *palay* 0 to 1 day after harvest



OTHER PRACTICES/TECHNOLOGIES

Rice straw composting





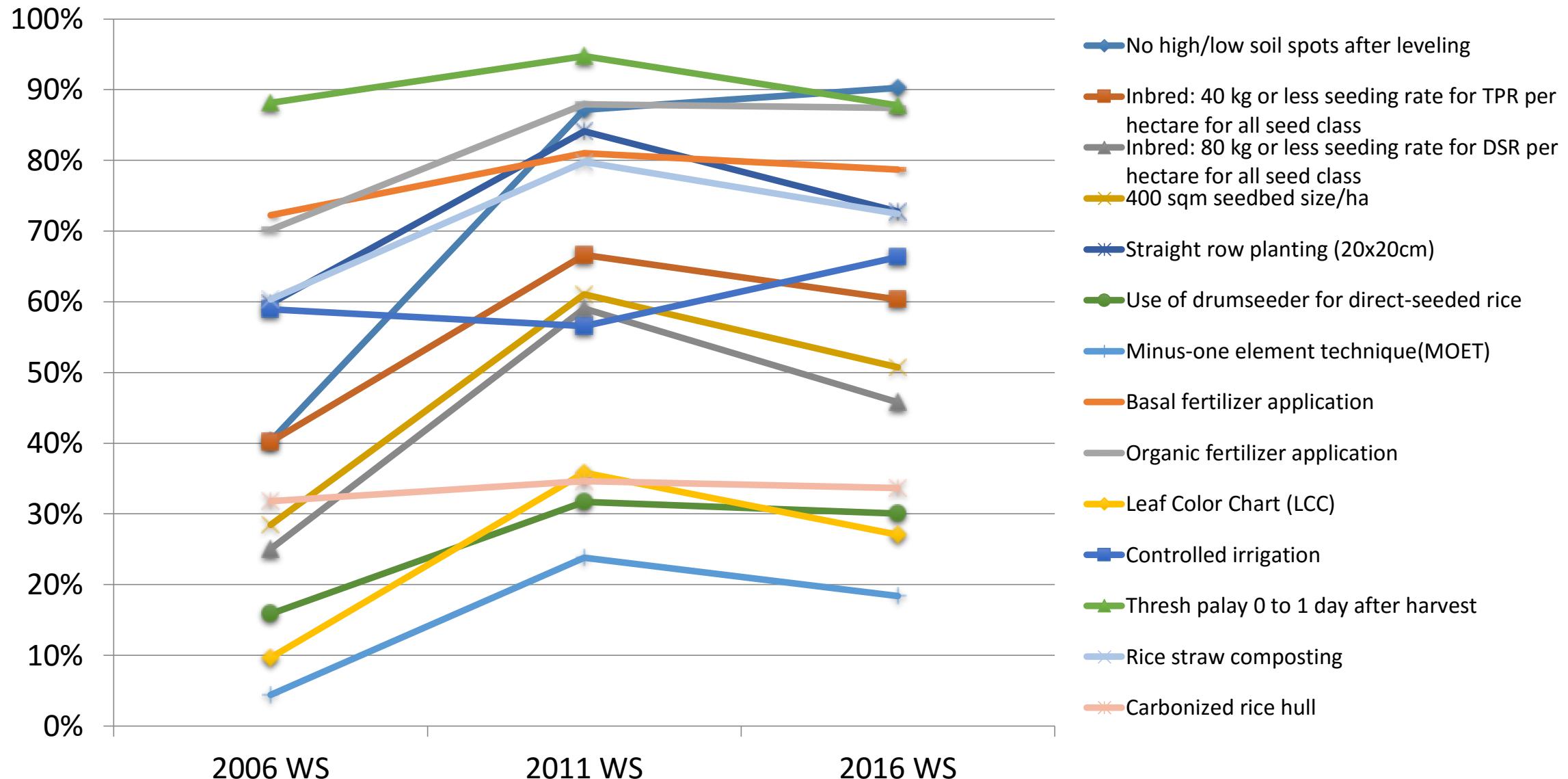
Carbonized rice hull



RICE FARMING PRACTICES/TECHNOLOGIES

- (1) No high/low spots after leveling
- (2) Inbred: 40 kg or less seeding rate for TPR per hectare for all seed class
- (3) Inbred: 80 kg or less seeding rate for DSR per hectare for all seed class
- (4) 400 sqm seedbed size/ha
- (5) Straight row planting (20x20cm)
- (6) Use of drumseeder for direct-seeded rice
- (7) Minus-one element technique (MOET)
- (8) Basal fertilizer application
- (9) Organic fertilizer application
- (10) Leaf Color Chart (LCC)
- (11) Controlled irrigation
- (12) Thresh palay 0 to 1 day after harvest
- (13) Carbonized rice hull
- (14) Rice straw composting

Trends in Technology Awareness



Level of Adoption

LOW → below 30%

MEDIUM → 30% to 69%

HIGH → 70% and above

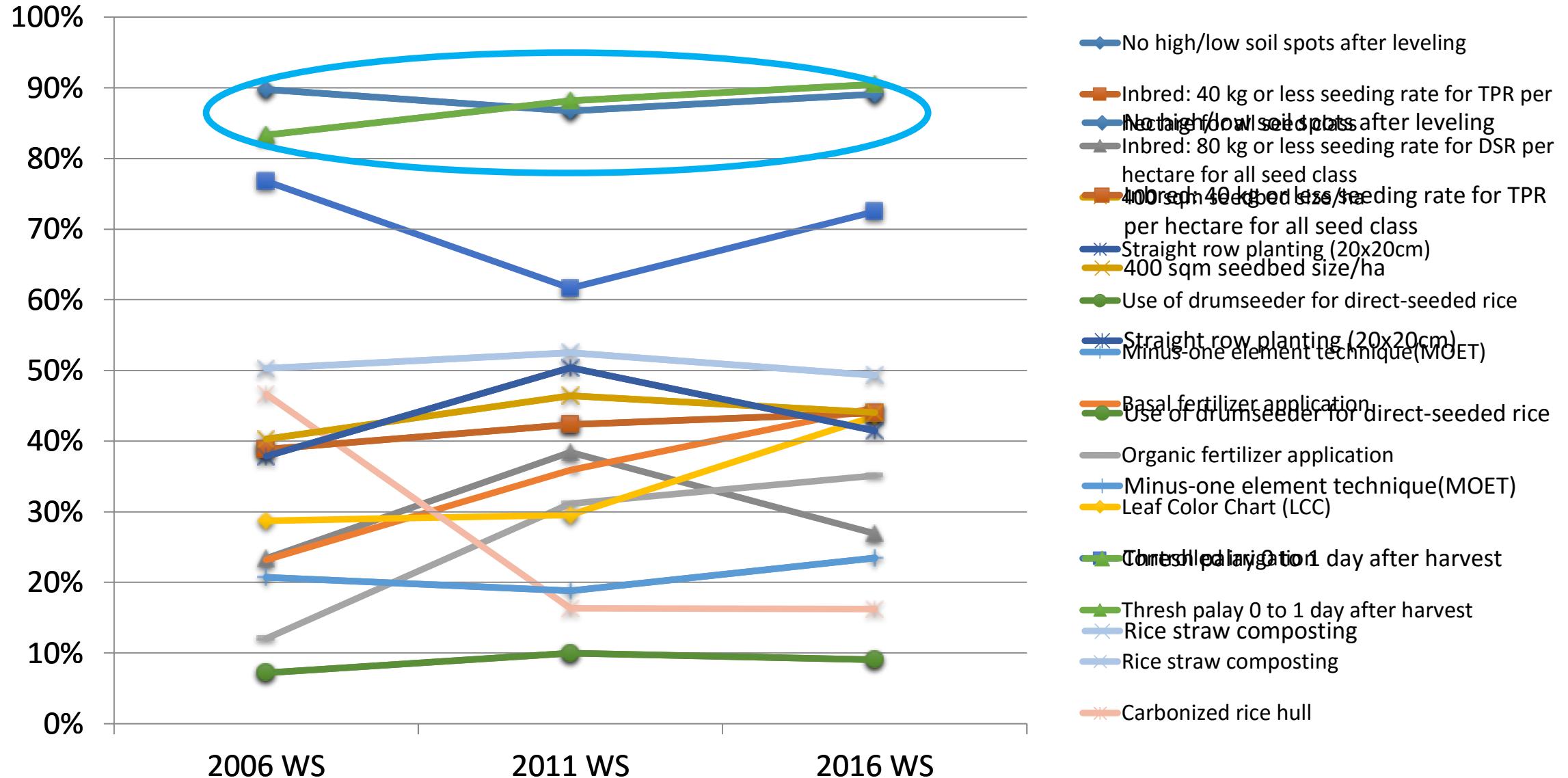


Technology Adoption

- Adoption of the technology within the last five years
- Percentage of adoption for all aware



Trends in Technology Adoption



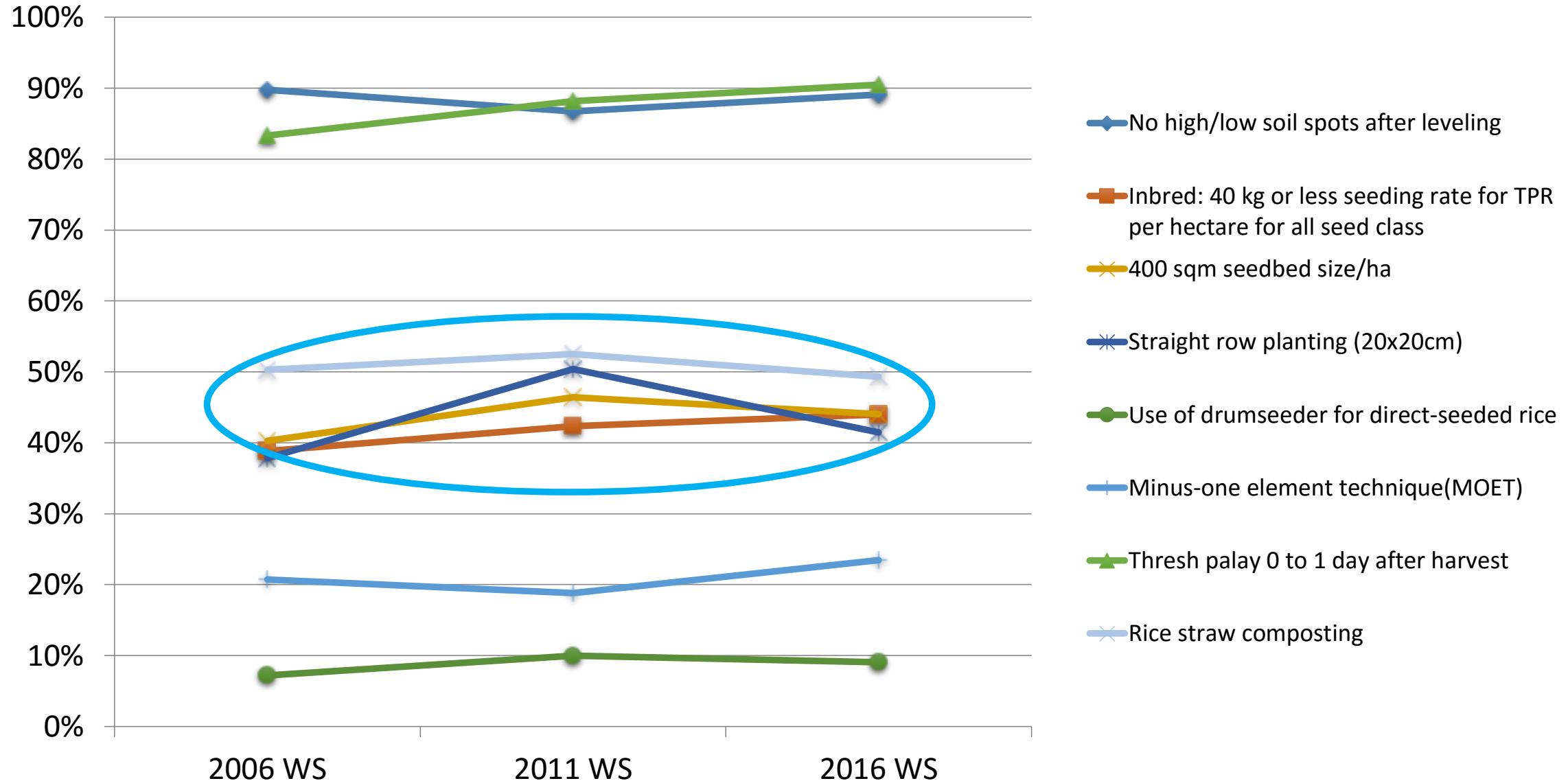
Trends in Technology Adoption

Adoption Level: High

- No high/low soil spots after leveling
- Thresh *palay* 0 to 1 day after harvest



Trends in Technology Adoption



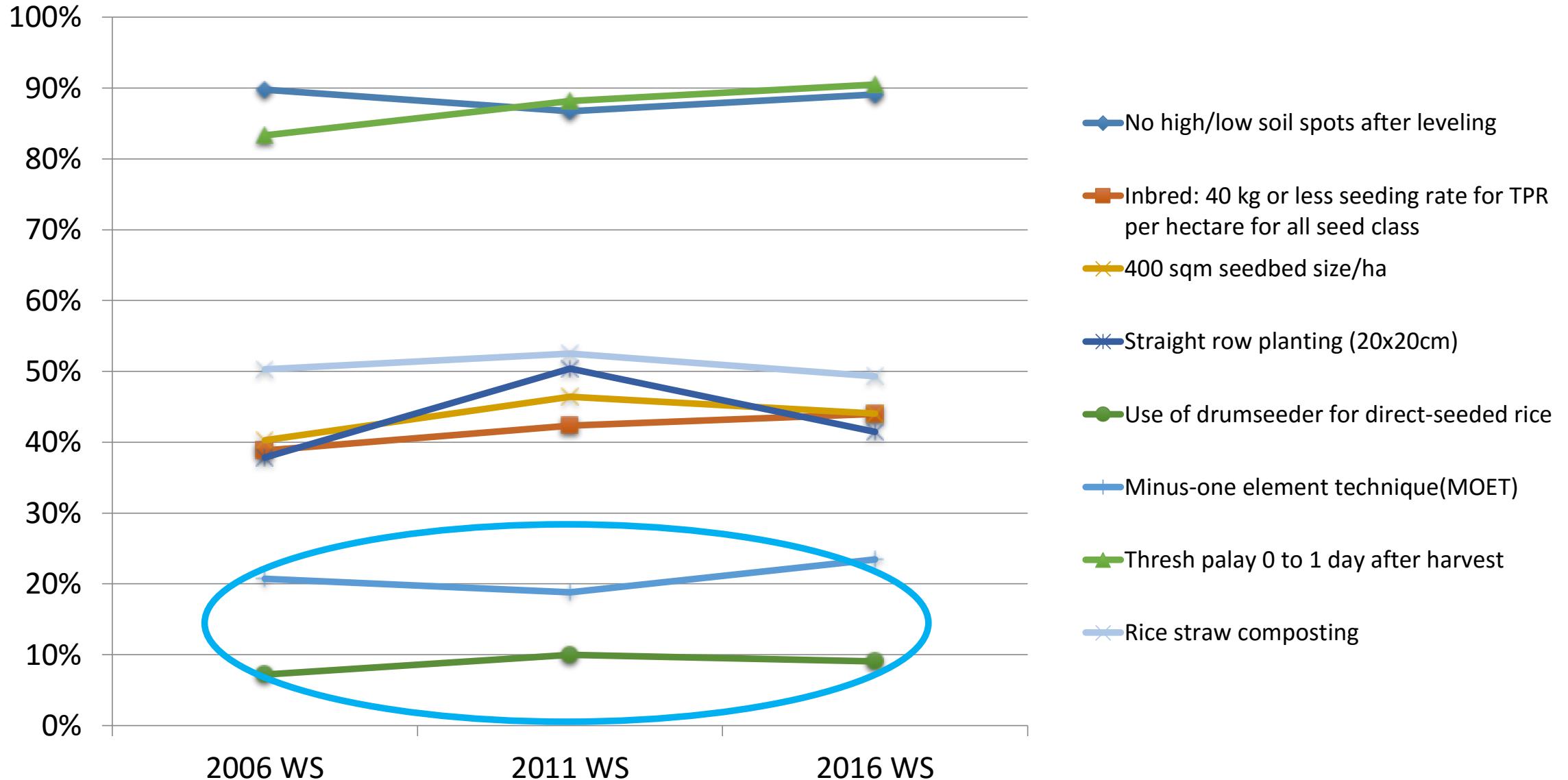
Trends in Technology Adoption

Adoption Level: Medium

- Inbred: 40 kg or less seeding rate for transplanted rice per hectare for all seed class
- 400 sqm. seedbed size per hectare
- Straight row planting (20x20cm)
- Rice straw composting



Trends in Technology Adoption



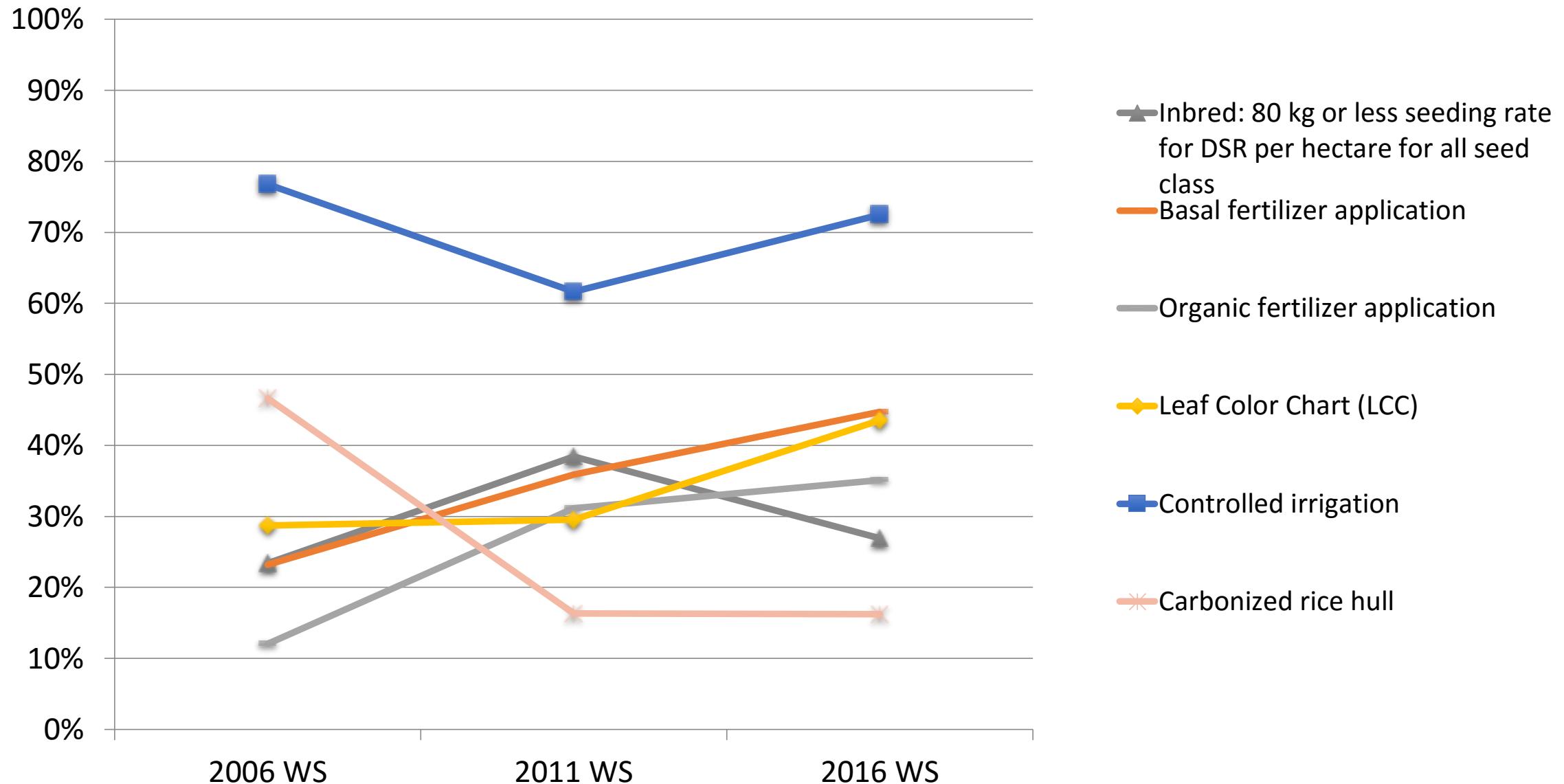
Trends in Technology Adoption

Adoption Level: Low

- Minus-one element technique(MOET)
- Use of drumseeder for direct-seeded rice

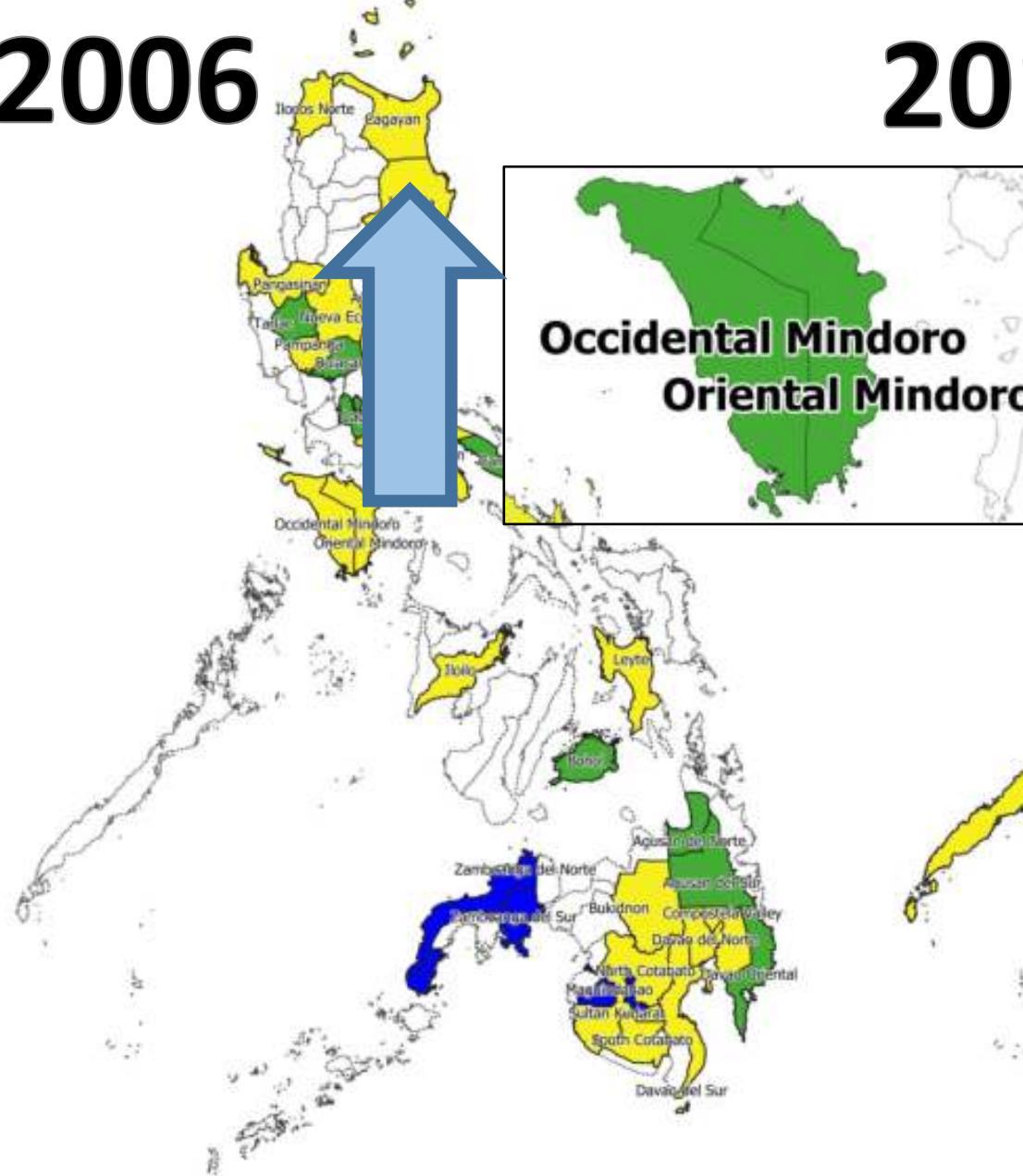


Trends in Technology Adoption

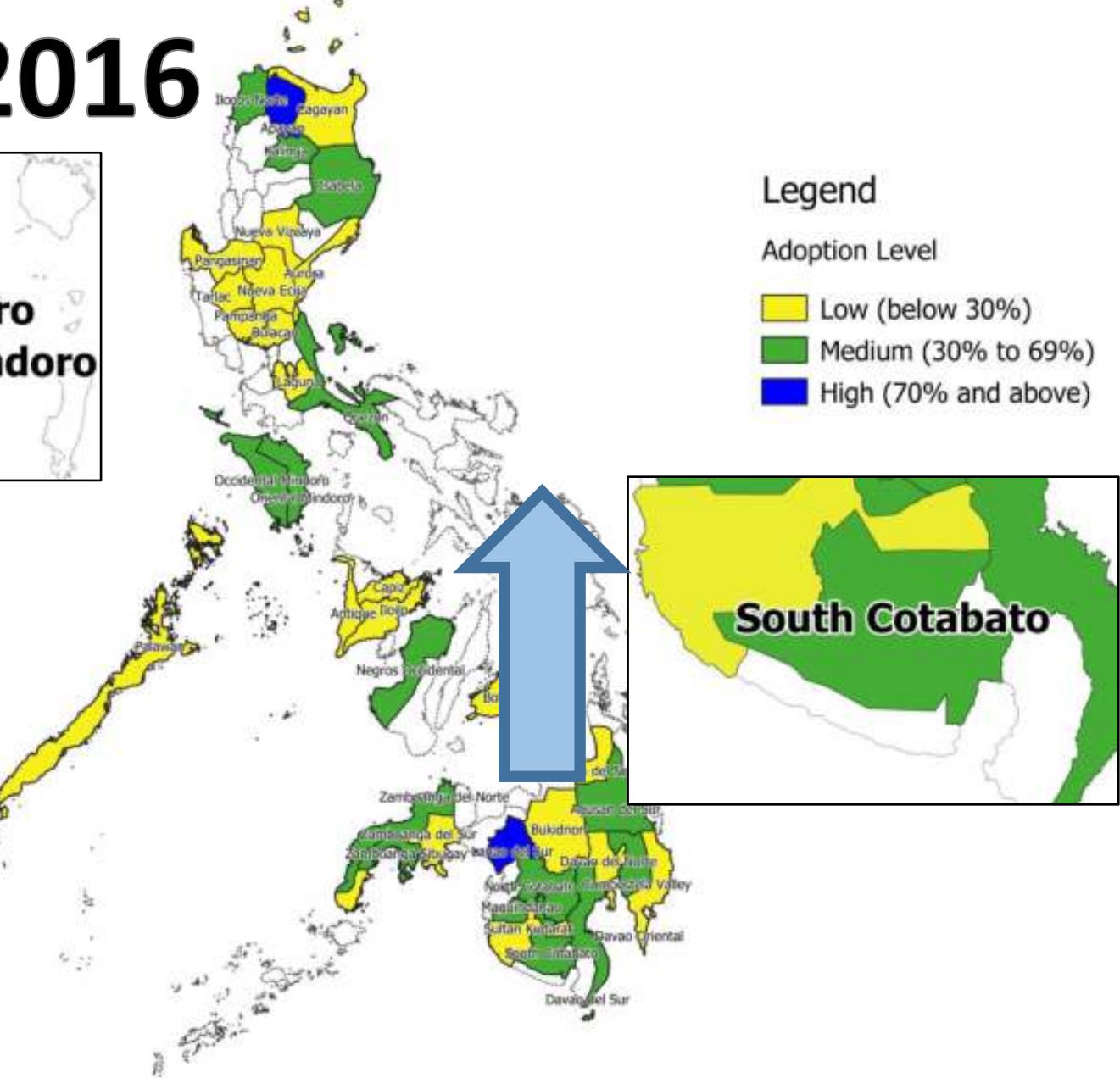


Inbred: 80 kg or less seeding rate for direct-seeded rice per hectare for all seed class

2006



2016



Legend

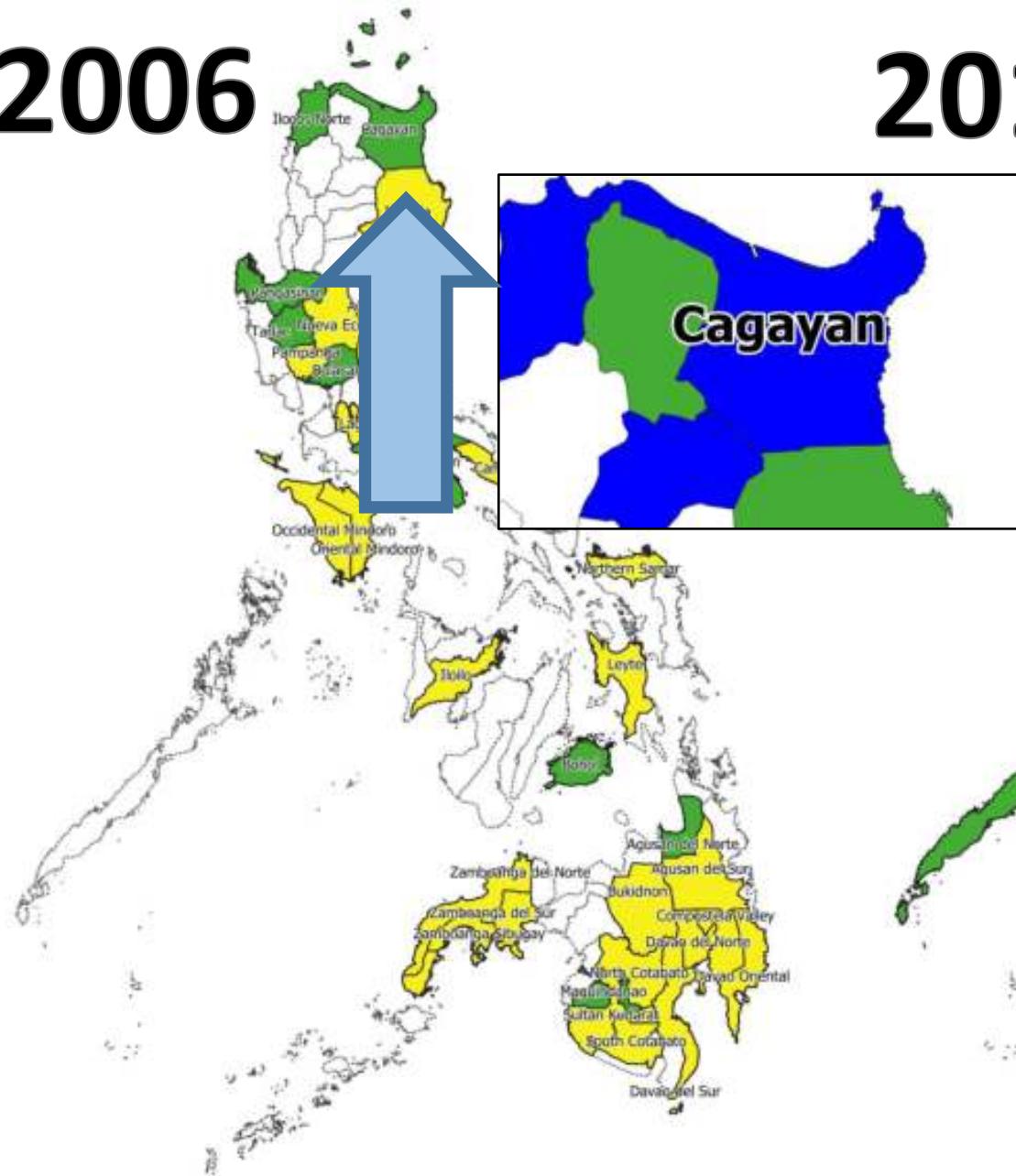
Adoption Level

- Low (below 30%)
- Medium (30% to 69%)
- High (70% and above)

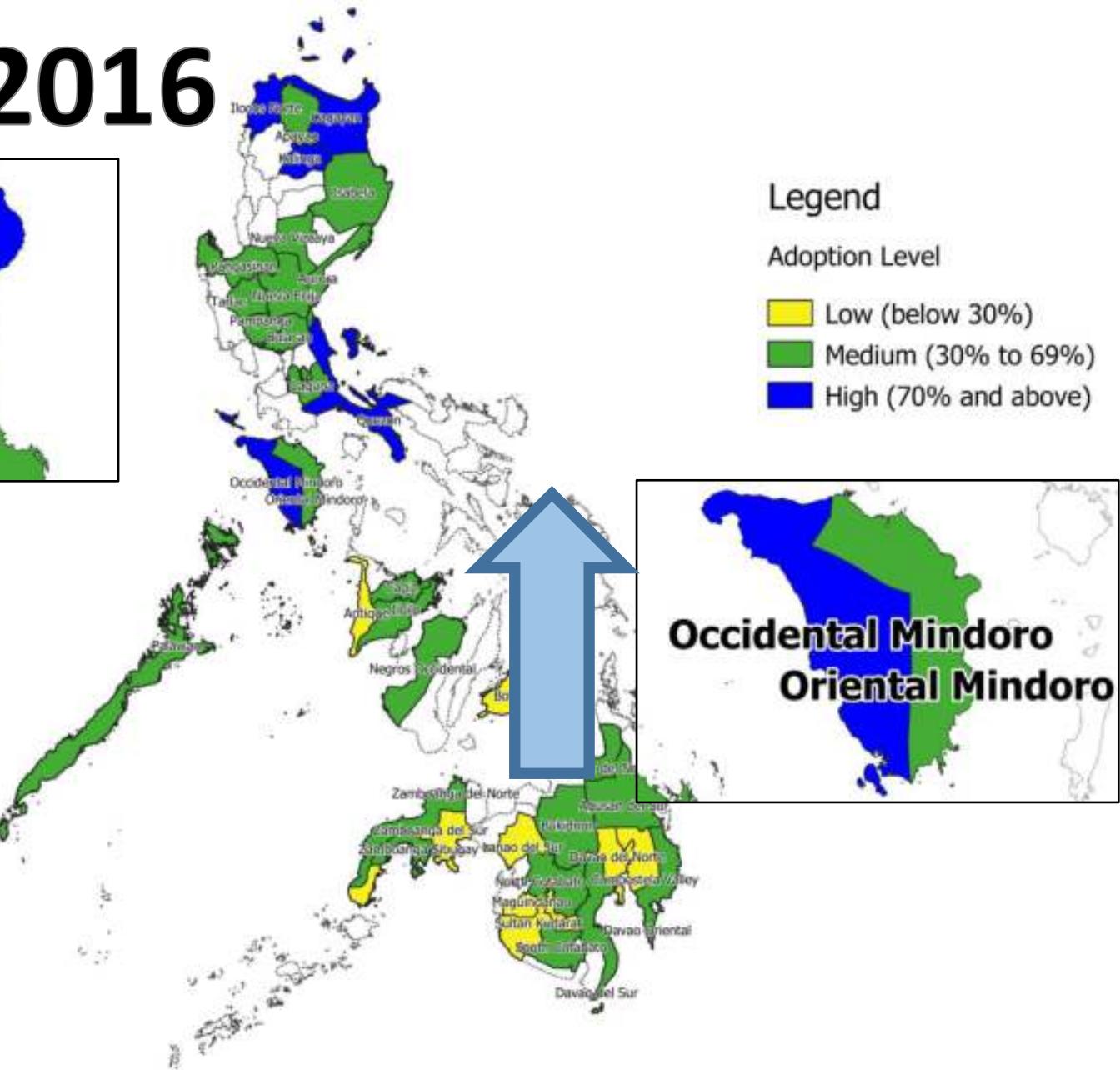
South Cotabato

Basal fertilizer application

2006



2016



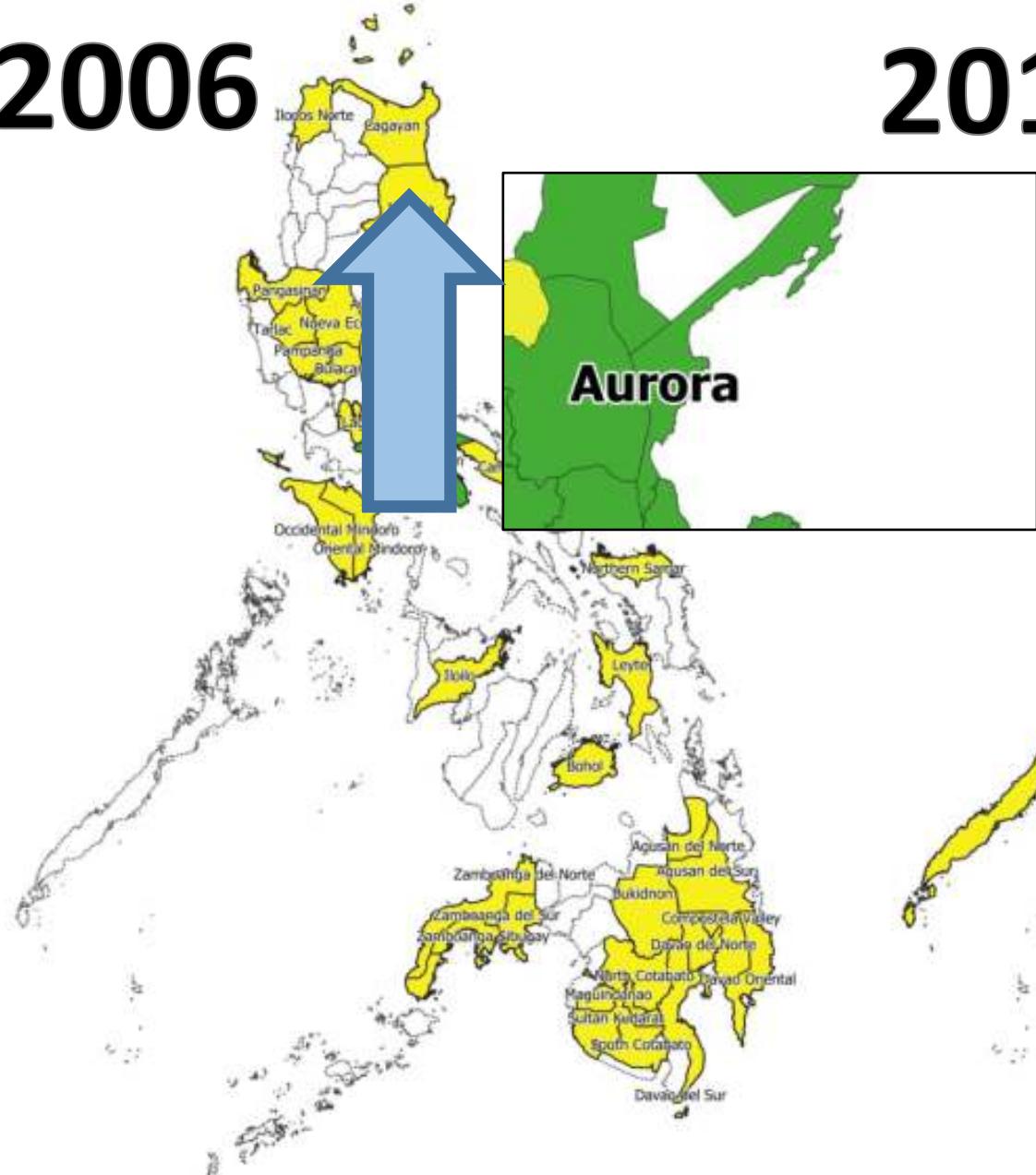
Legend

Adoption Level

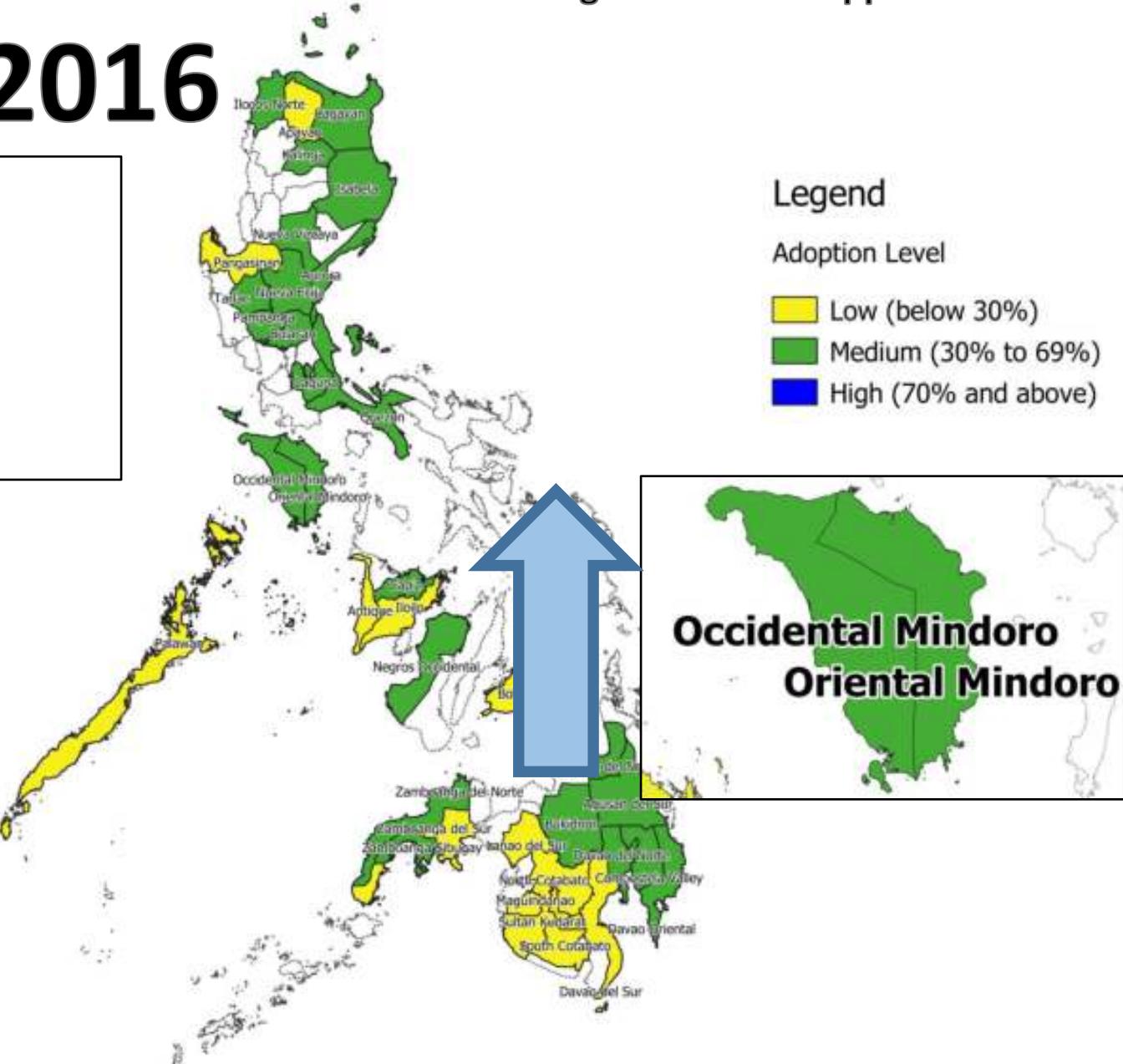
- Low (below 30%)
- Medium (30% to 69%)
- High (70% and above)

Organic fertilizer application

2006

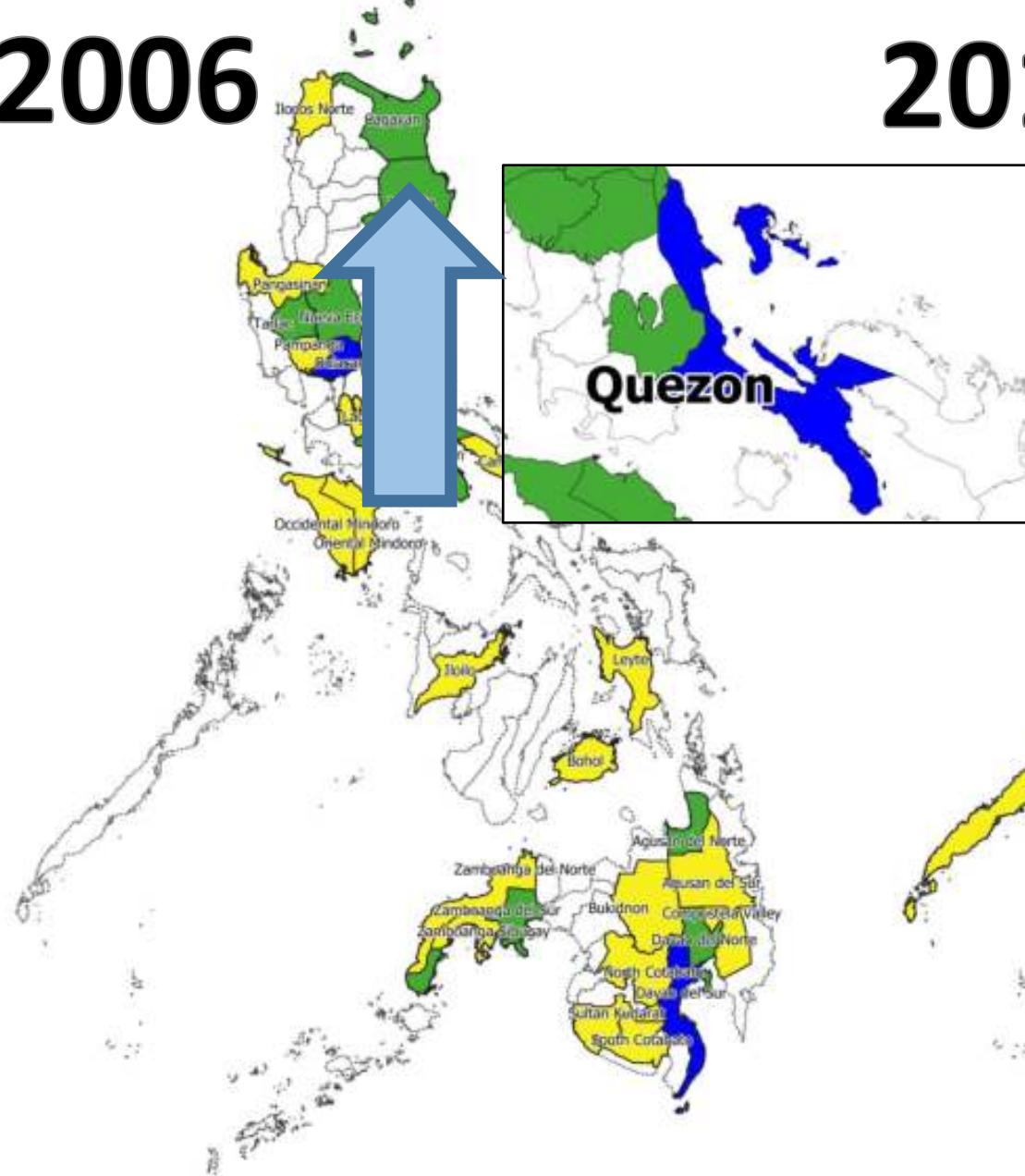


2016

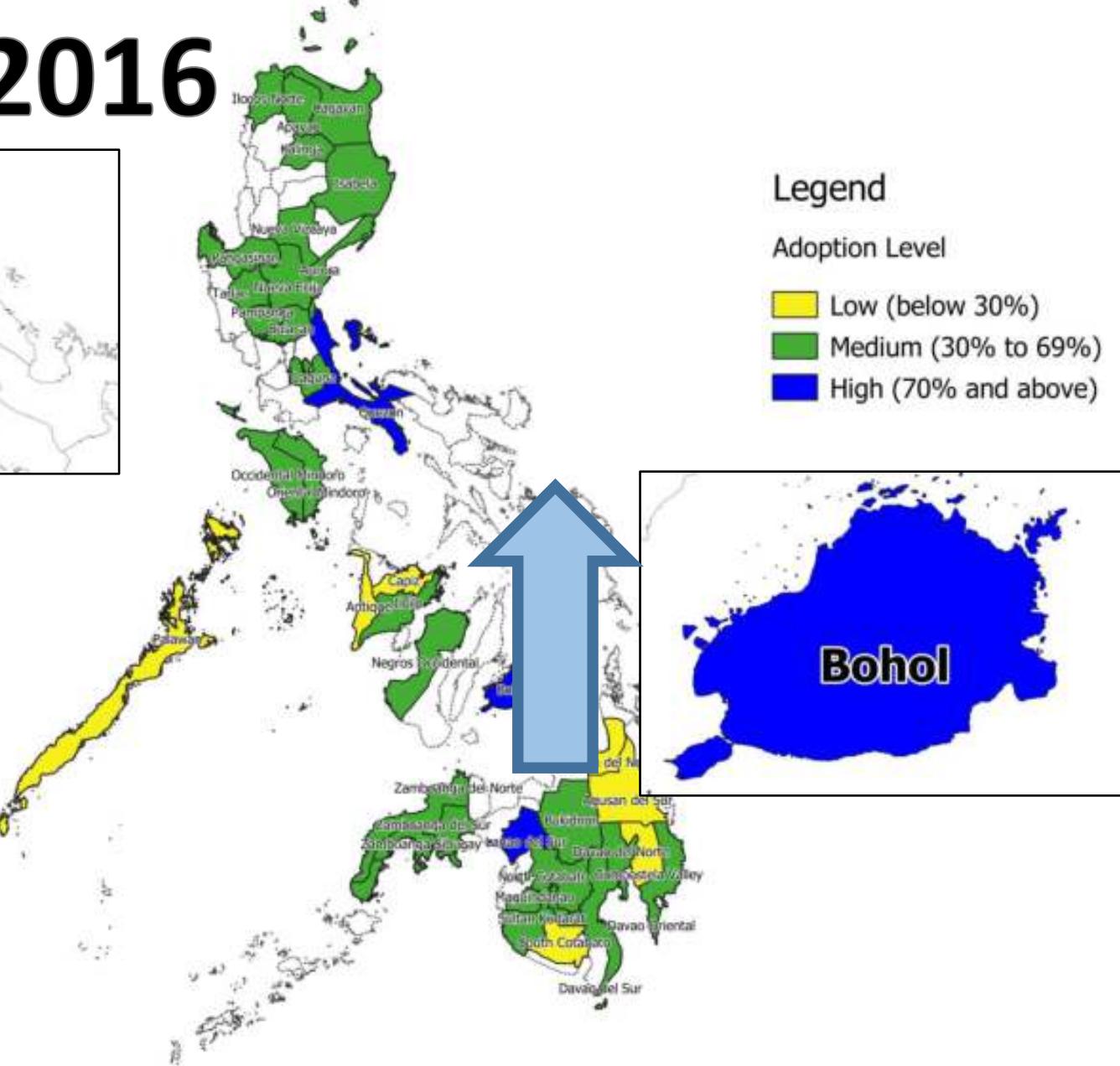


Leaf color chart (LCC)

2006



2016



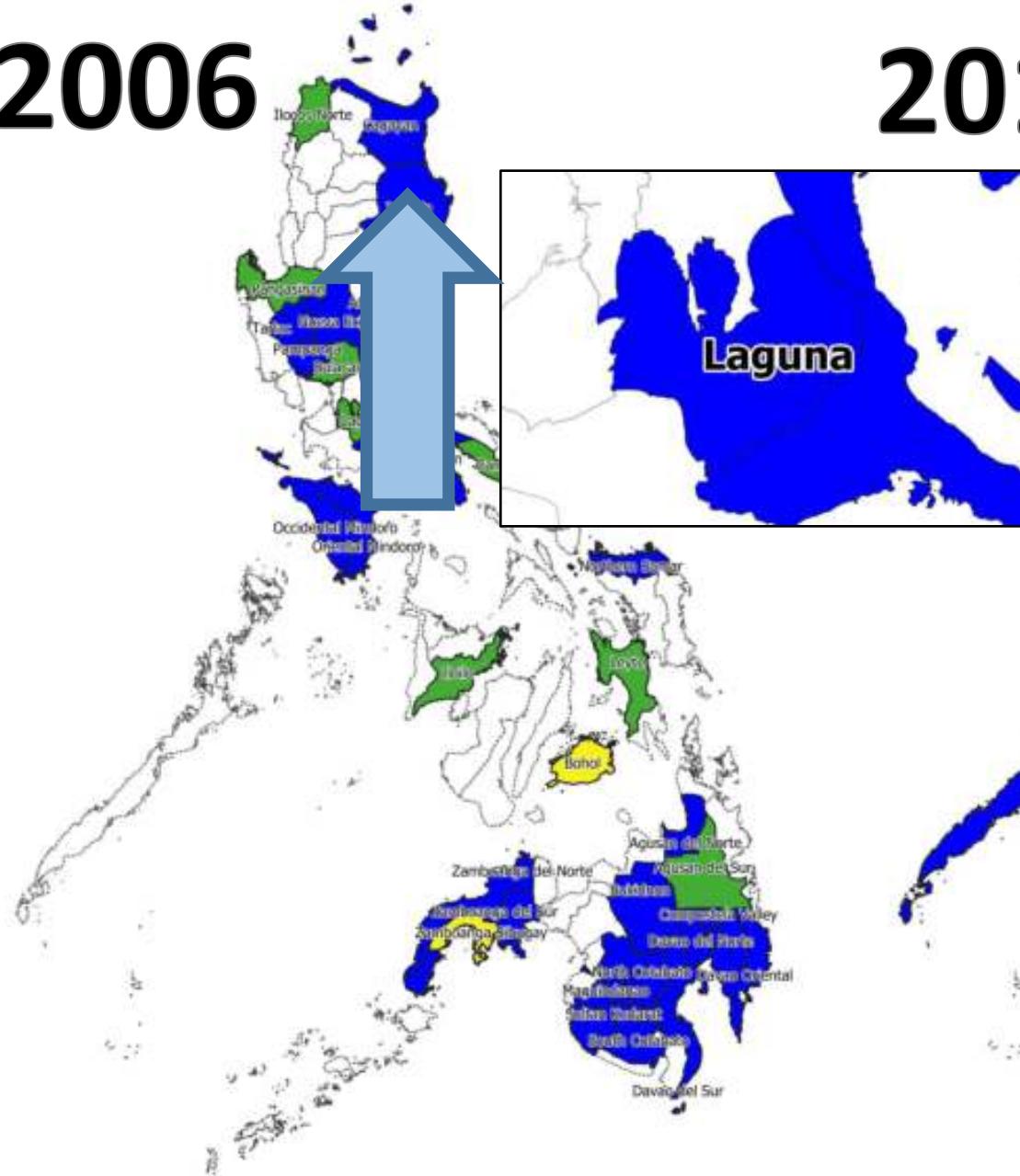
Legend

Adoption Level

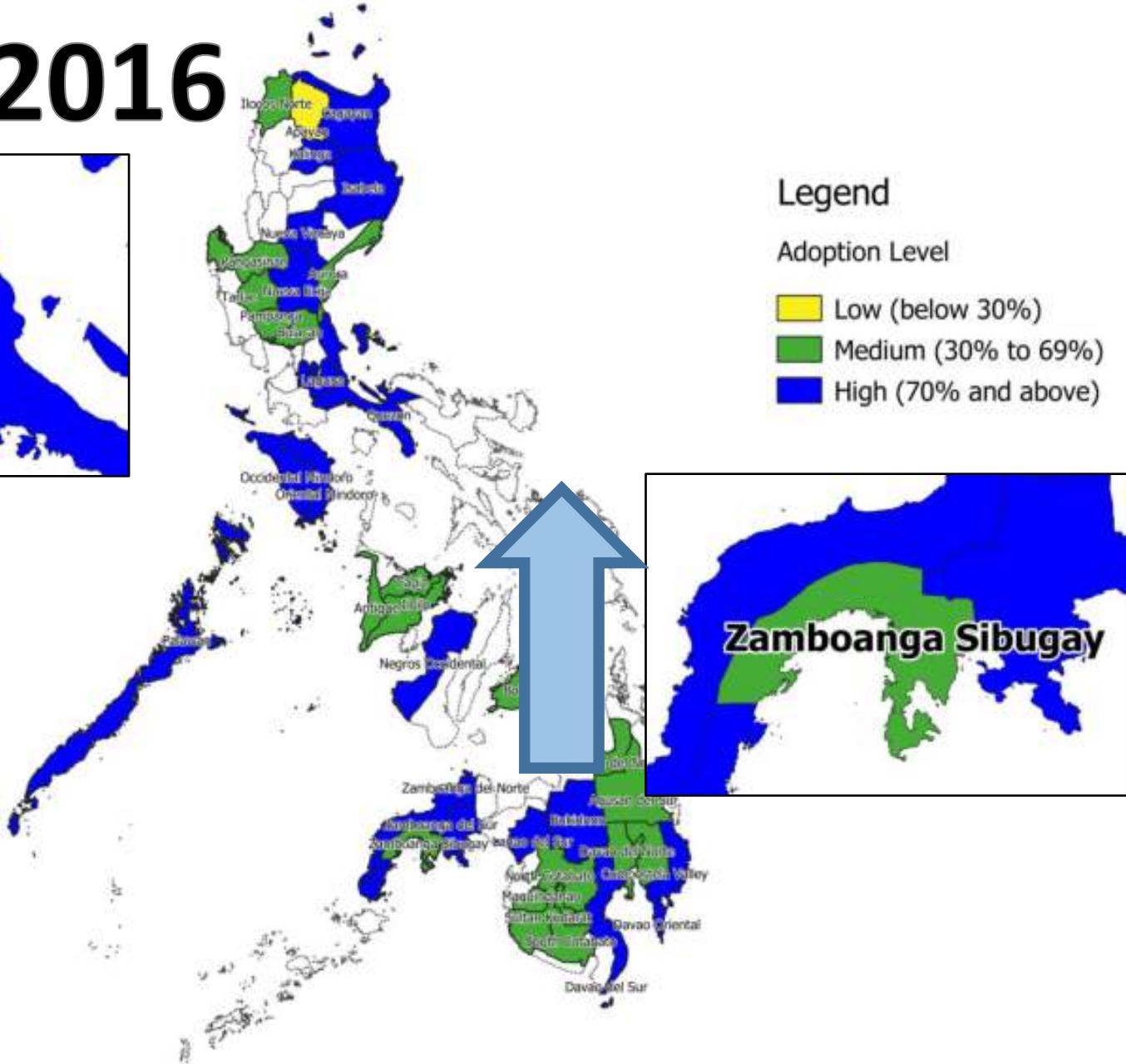
- Low (below 30%)
 - Medium (30% to 69%)
 - High (70% and above)

Controlled irrigation

2006



2016



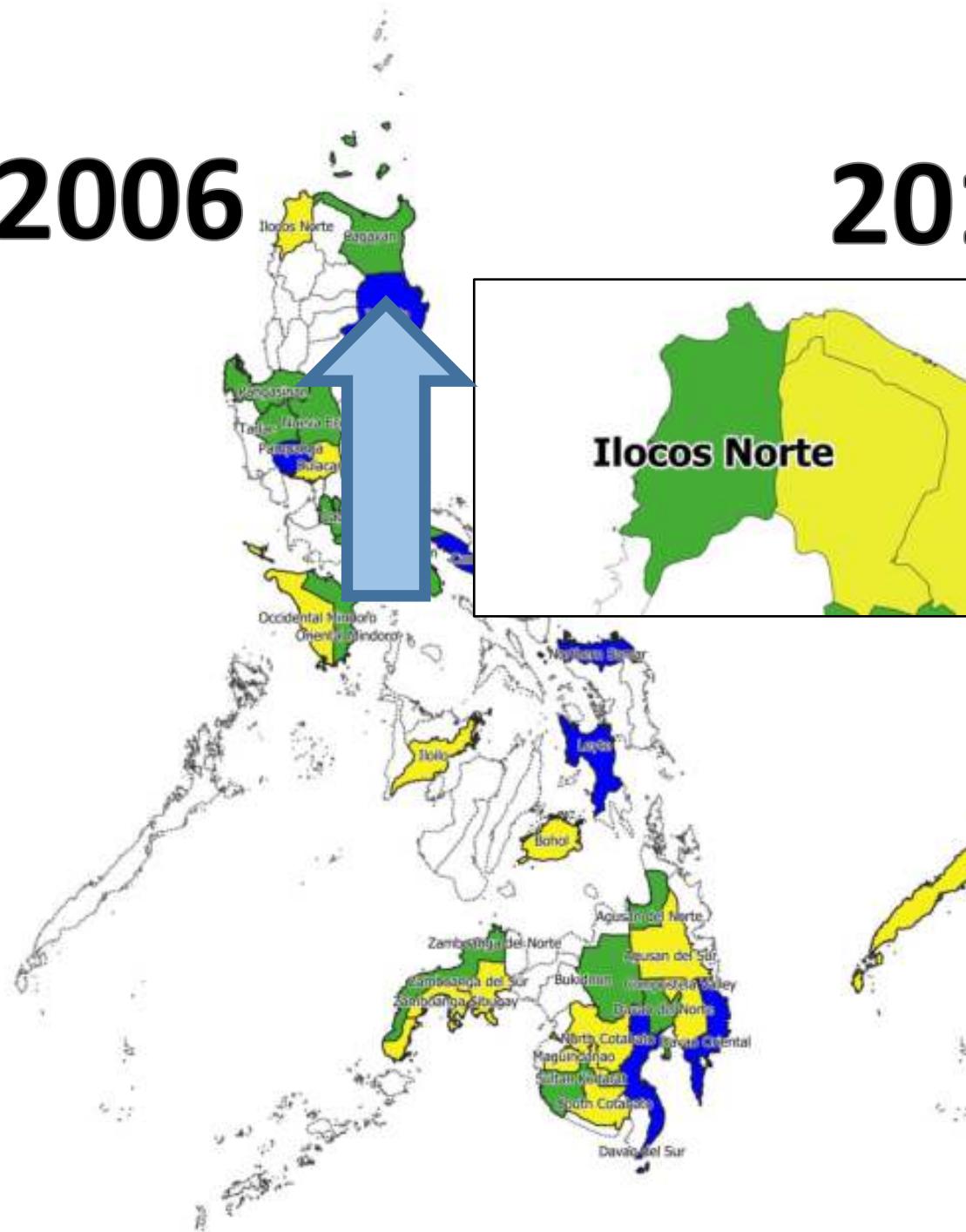
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Adoption Level

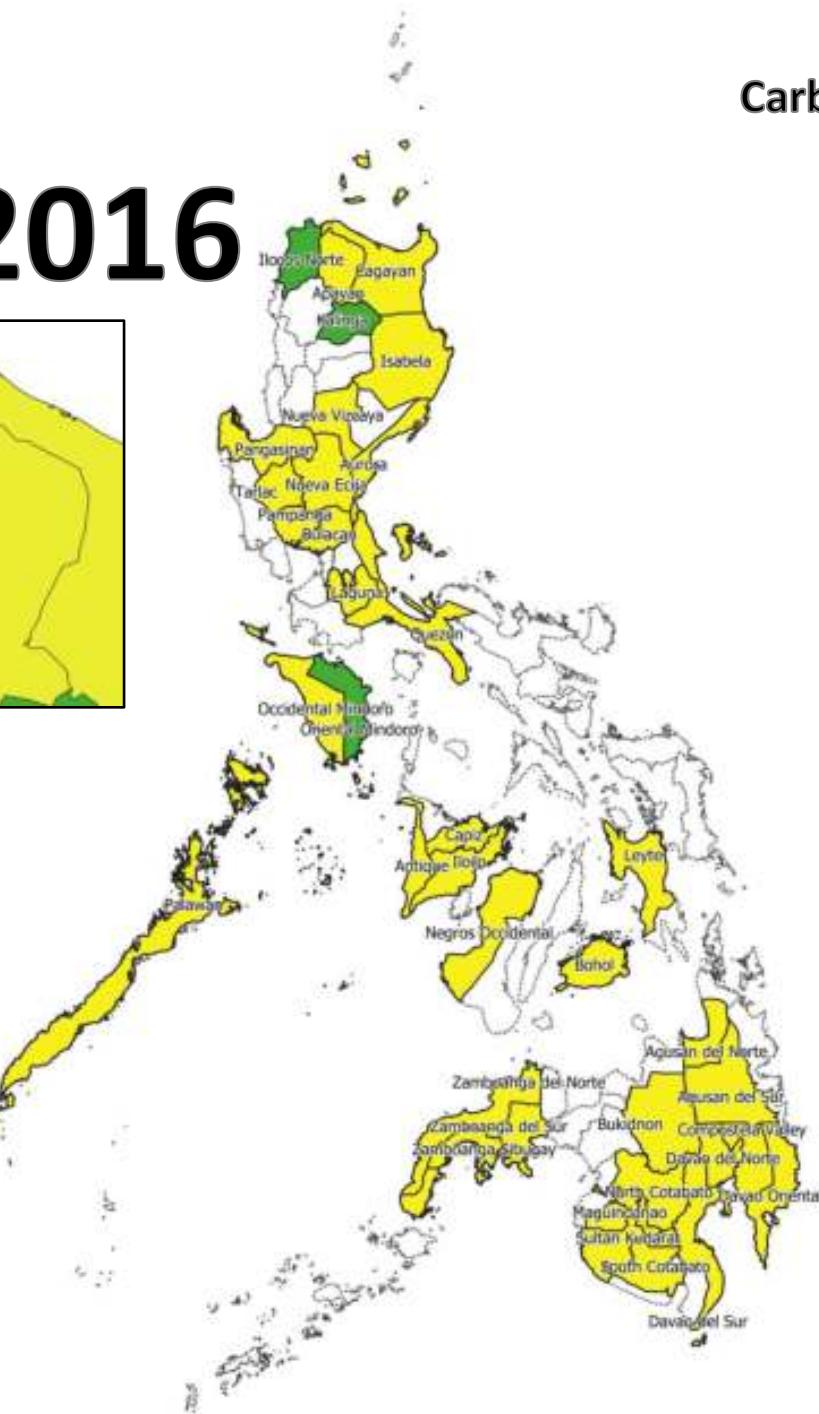
- Low (below 30%)
- Medium (30% to 69%)
- High (70% and above)

Carbonized rice hull

2006



2016



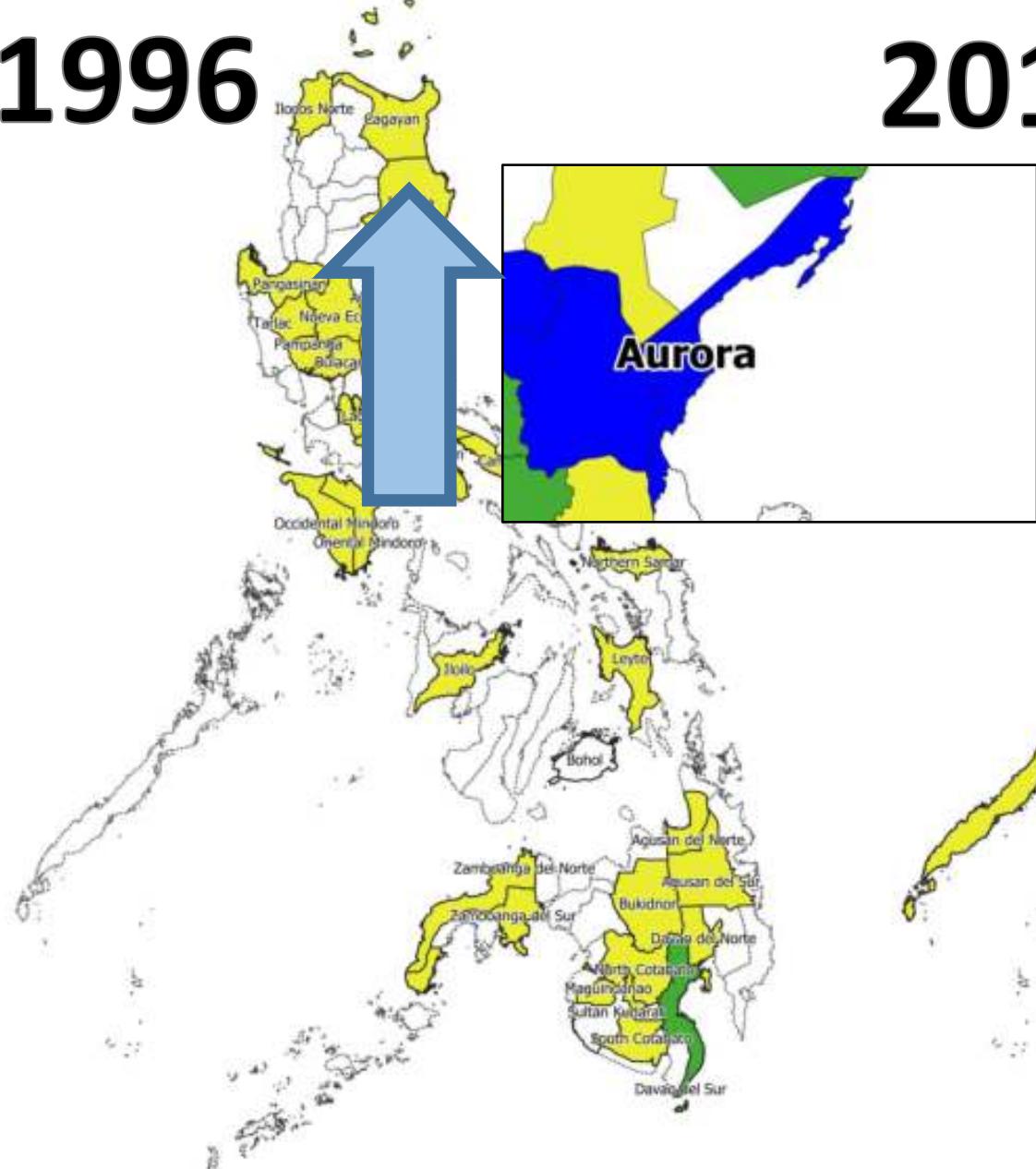
Legend

Adoption Level

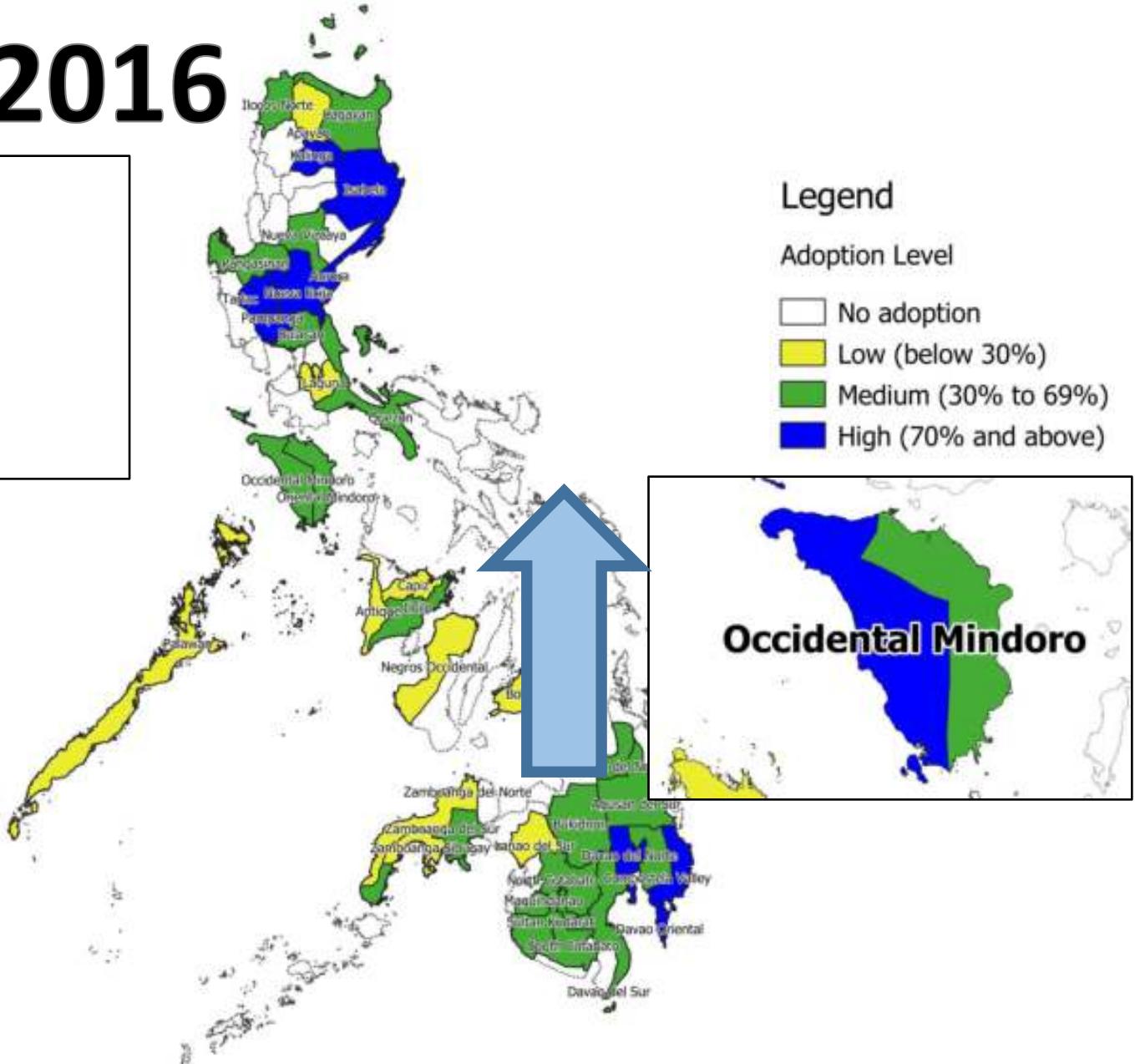
- Low (below 30%)
- Medium (30% to 69%)
- High (70% and above)

Use of high-quality inbred seeds

1996



2016



Legend

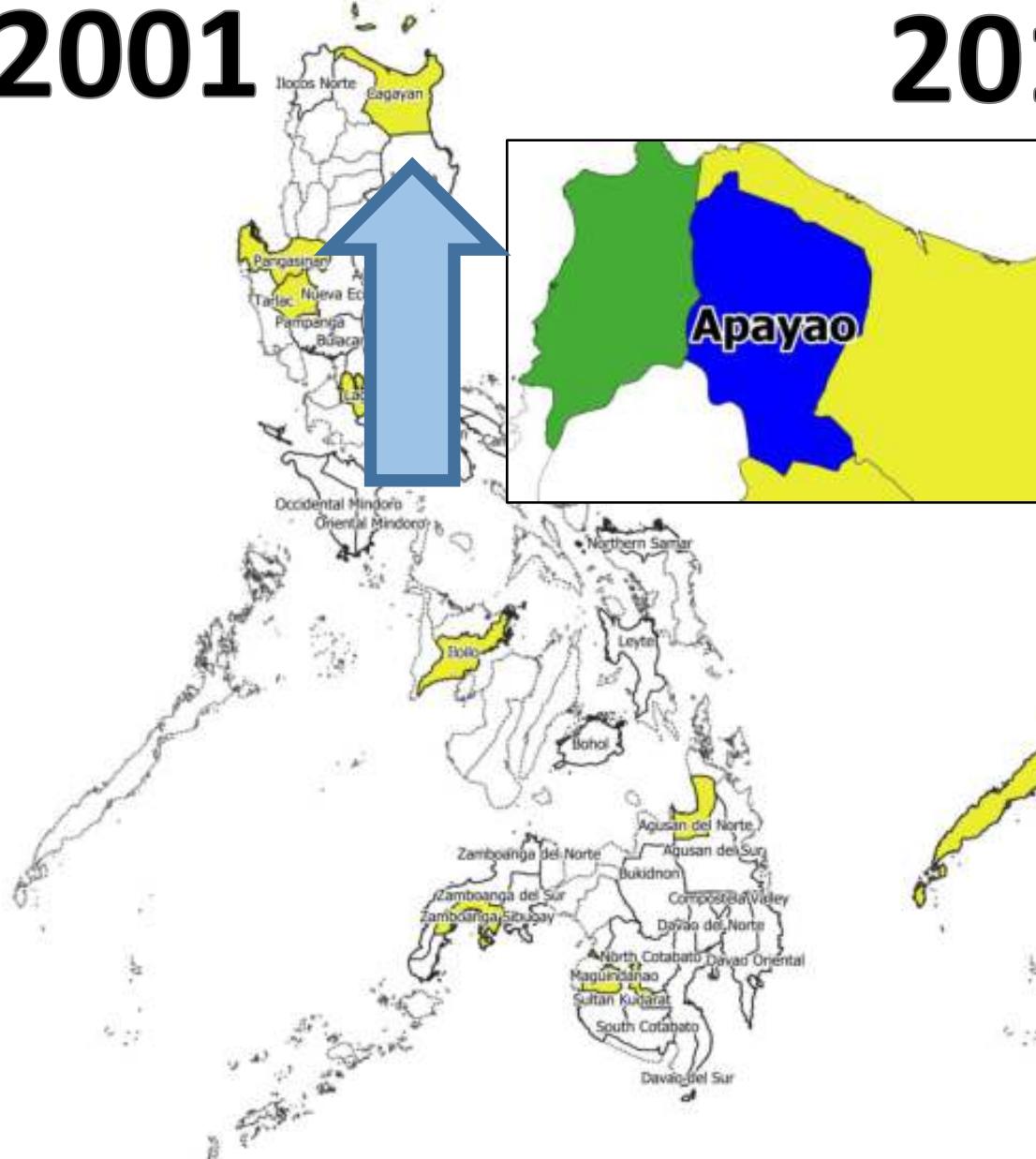
Adoption Level

- No adoption (White)
- Low (below 30%) (Yellow)
- Medium (30% to 69%) (Green)
- High (70% and above) (Blue)

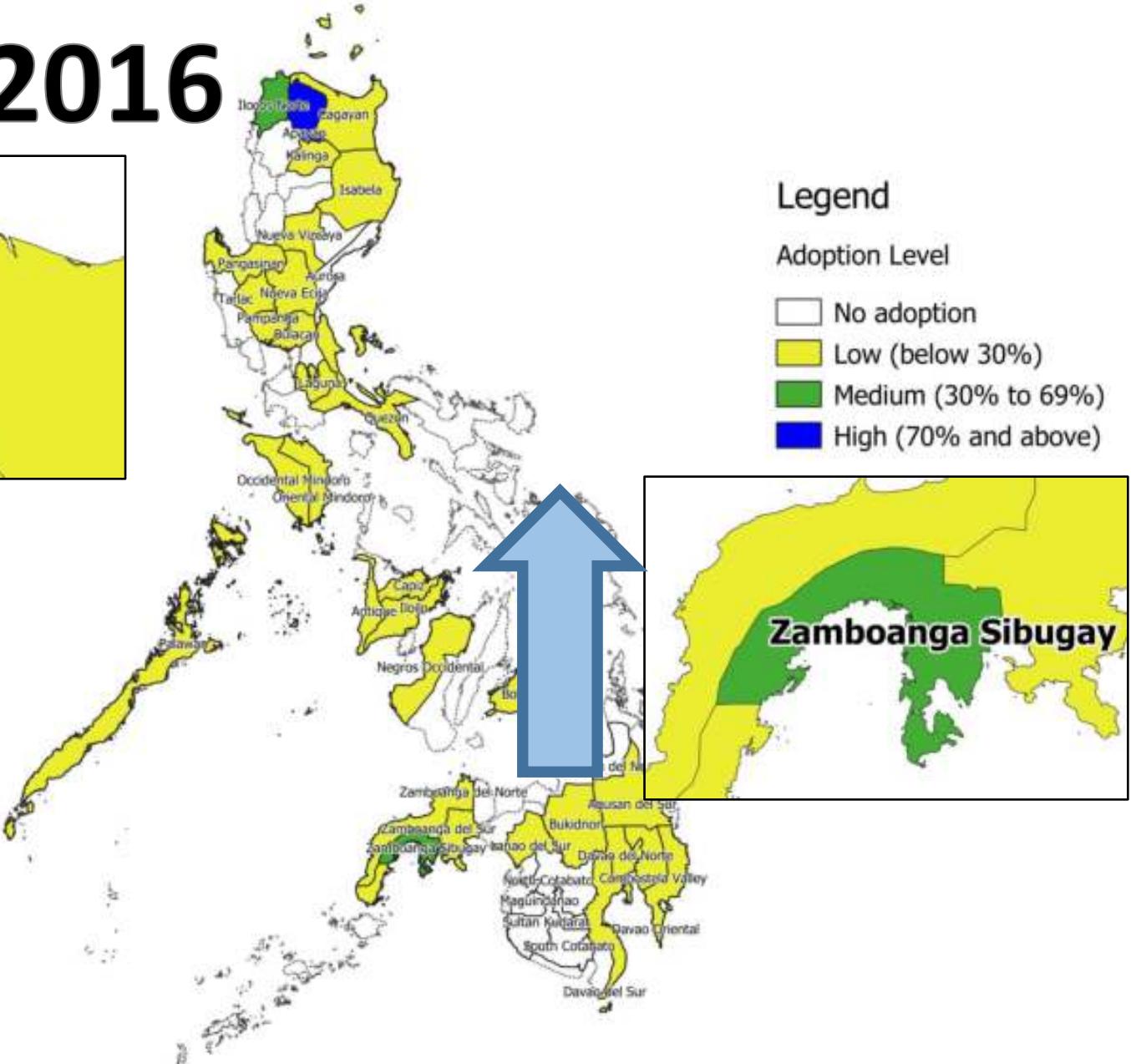
Occidental Mindoro

Use of hybrid seeds

2001



2016



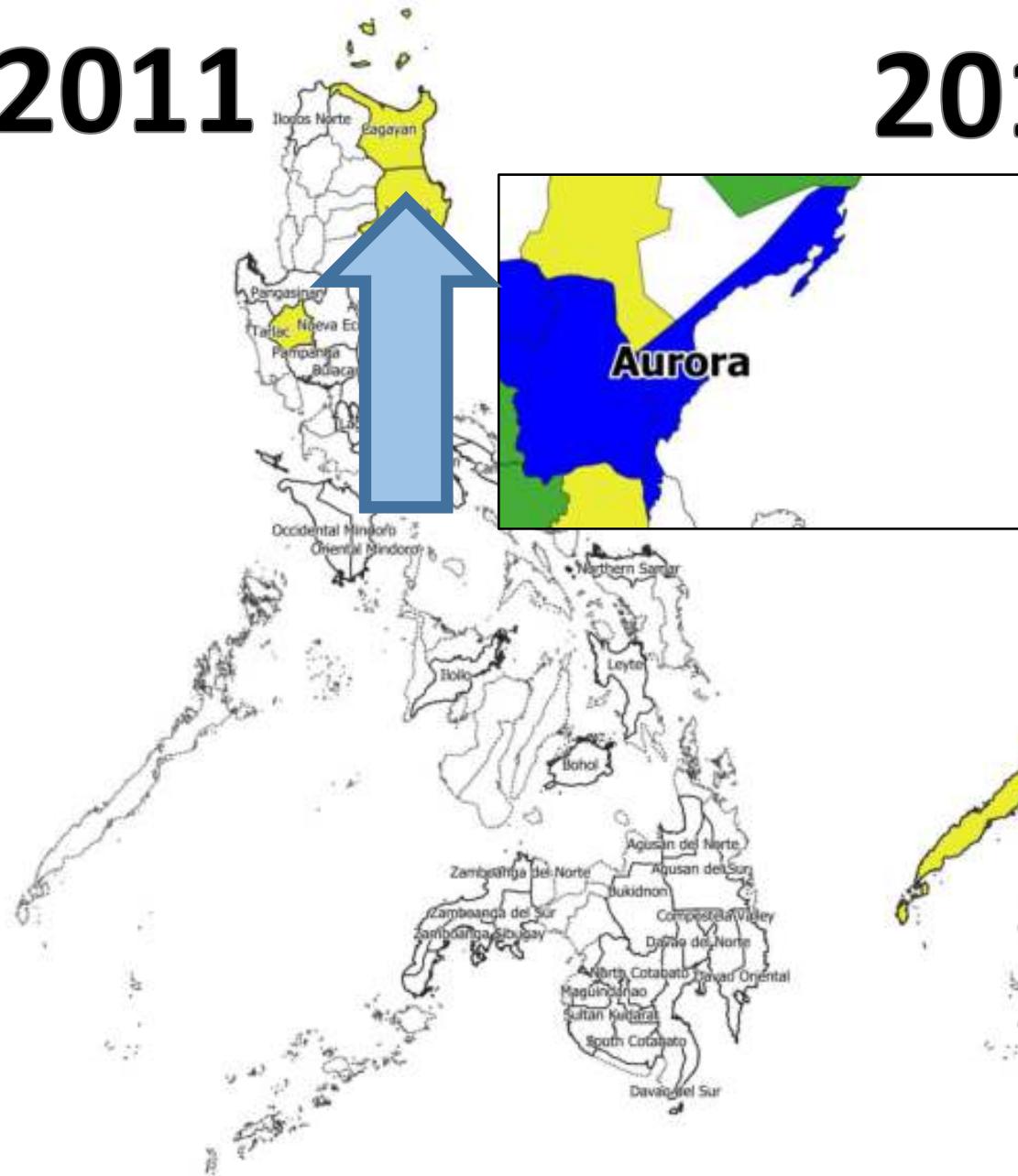
Legend

Adoption Level

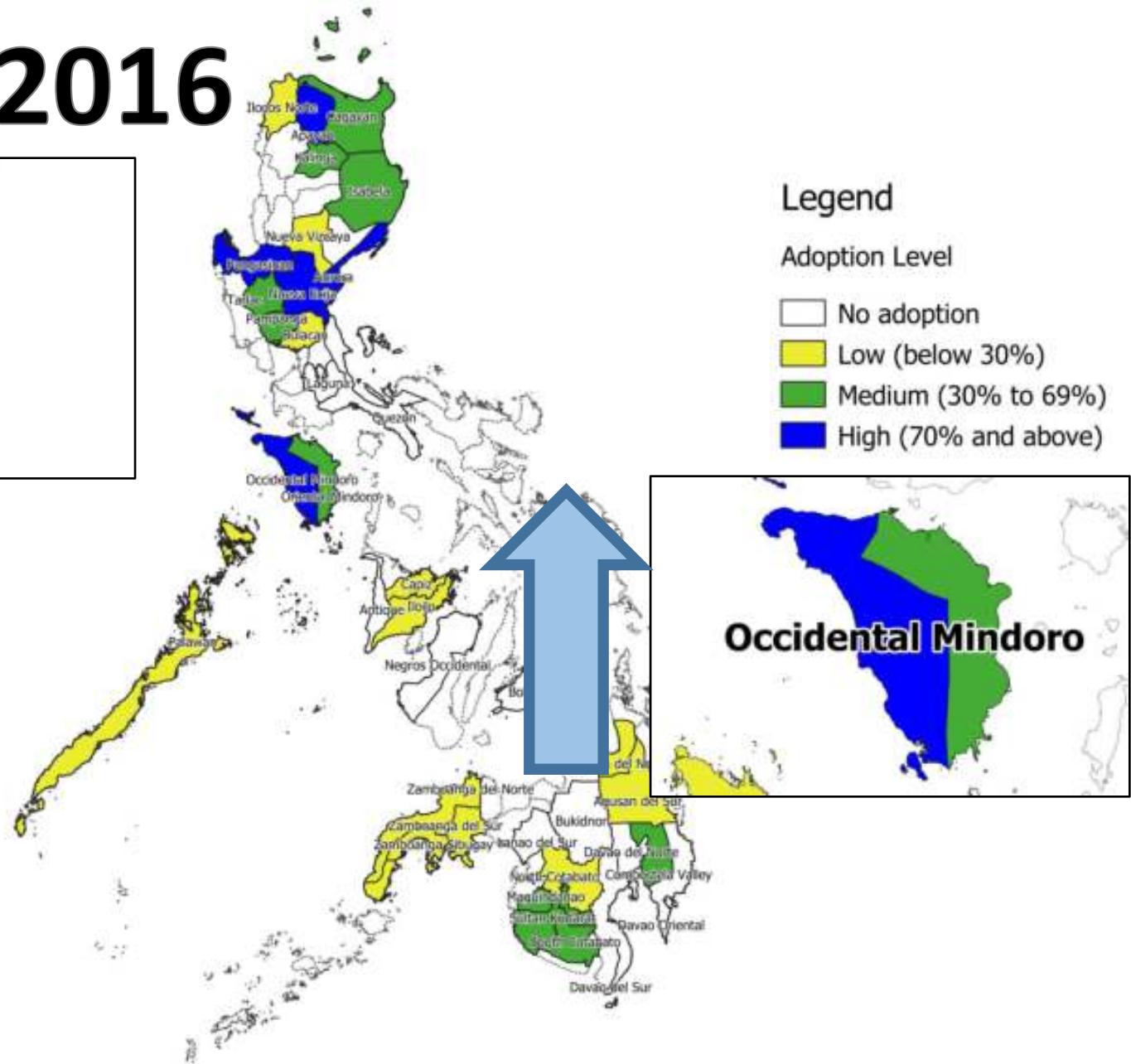
- No adoption
- Low (below 30%)
- Medium (30% to 69%)
- High (70% and above)

Combine harvester

2011



2016



Legend

Adoption Level

- No adoption
- Low (below 30%)
- Medium (30% to 69%)
- High (70% and above)

Conclusion and Recommendation

- Awareness and adoption are increasing over the years
- Awareness does not mean adoption
- High adoption level: 1 step, free, old practice/tradition
 - No high/low soil spots after leveling
 - Thresh *palay* 0 to 1 day after harvest
 - Controlled irrigation
- Low adoption level: tool, procedure, cost
 - Minus-one element technique (MOET)
 - Use of drumseeder direct-seeded rice



Conclusion and Recommendation

- Continue to strengthen the level of awareness and adoption through training, promotion and extension especially in the provinces of Antique, Aurora, Iloilo and Sultan Kudarat.



THANK YOU!

Presenter

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