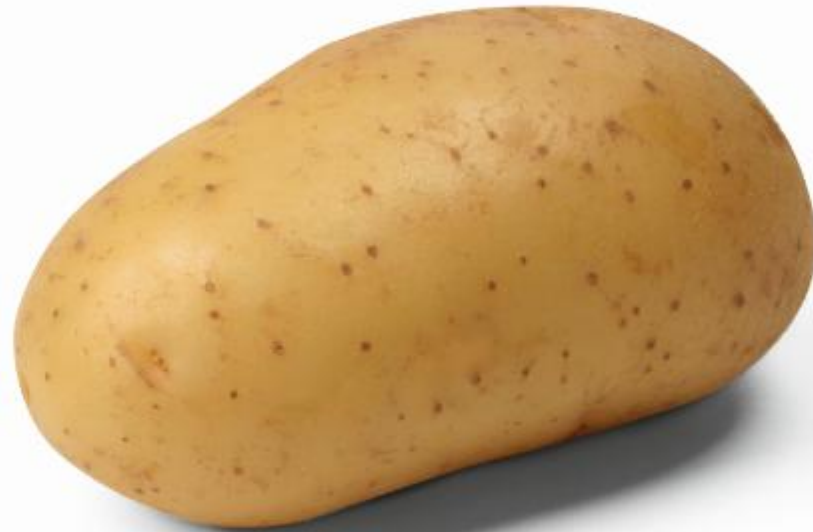


# Seminar on Mechanization Trends of Potato Growing in Asia-Pacific Area

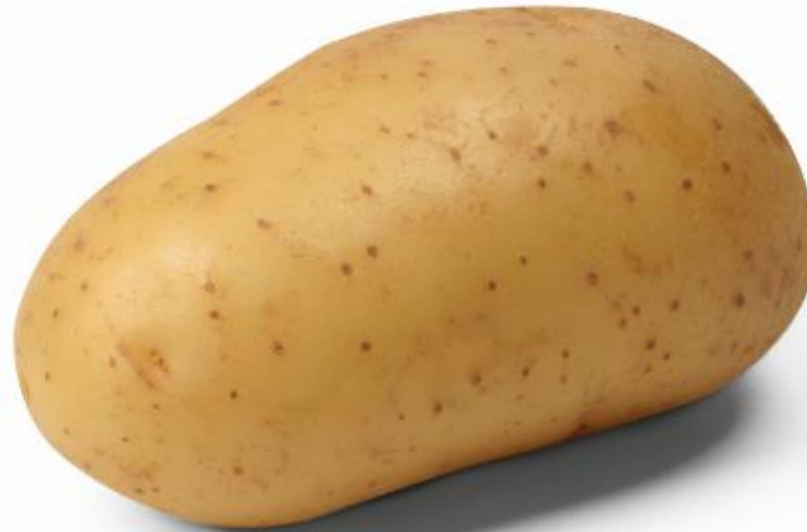
Dennis Markus  
Country Manager China and Mongolia



# Seminar on Mechanization Trends of Potato Growing in Asia-Pacific Area



# Seminar on Mechanization Trends of Potato Growing in Asia-Pacific Area



Farm Management!

1. Cultivation & spring technology

2. Preservation

3. Harvest & transport

4. Storage technology



# Global challenges

- The world population is growing by 100 million people a year <sup>1)</sup>
- 1 billion people are starving. 5 million people die every year of hunger
- Water is the future be the limiting resource and reduce the world's usable area
- The United Nations has declared 2008 as the Year of the Potato, because of their importance for food security. ? (Rice, wheat, maize, potato)

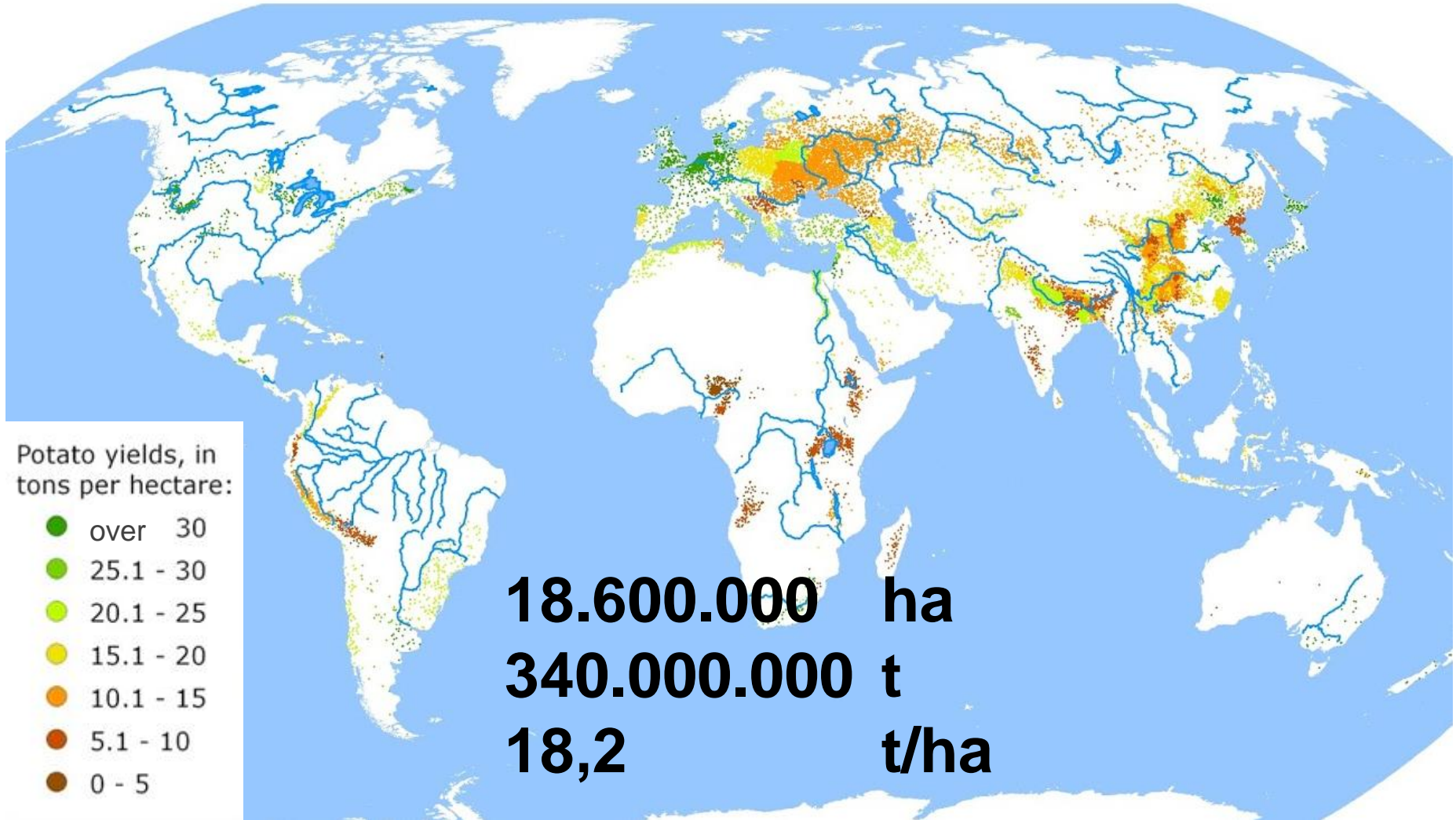
**„The potato is in the frontline in the fight against world hunger and poverty!“**

Jacques Diouf, General Director of FAO

1) United Nations,  
2) [www.FAO.org](http://www.FAO.org)



# Potato world



Each point shows 1000 ha

Source: FAO Stat

**Did you know that more than half of the potatoes are collected by hand worldwide?**



**Did you know that in the United States they need least labor for the harvest?**



**Did you know that in India potatoes are carried by hand in warehouses with more than seven floors?**

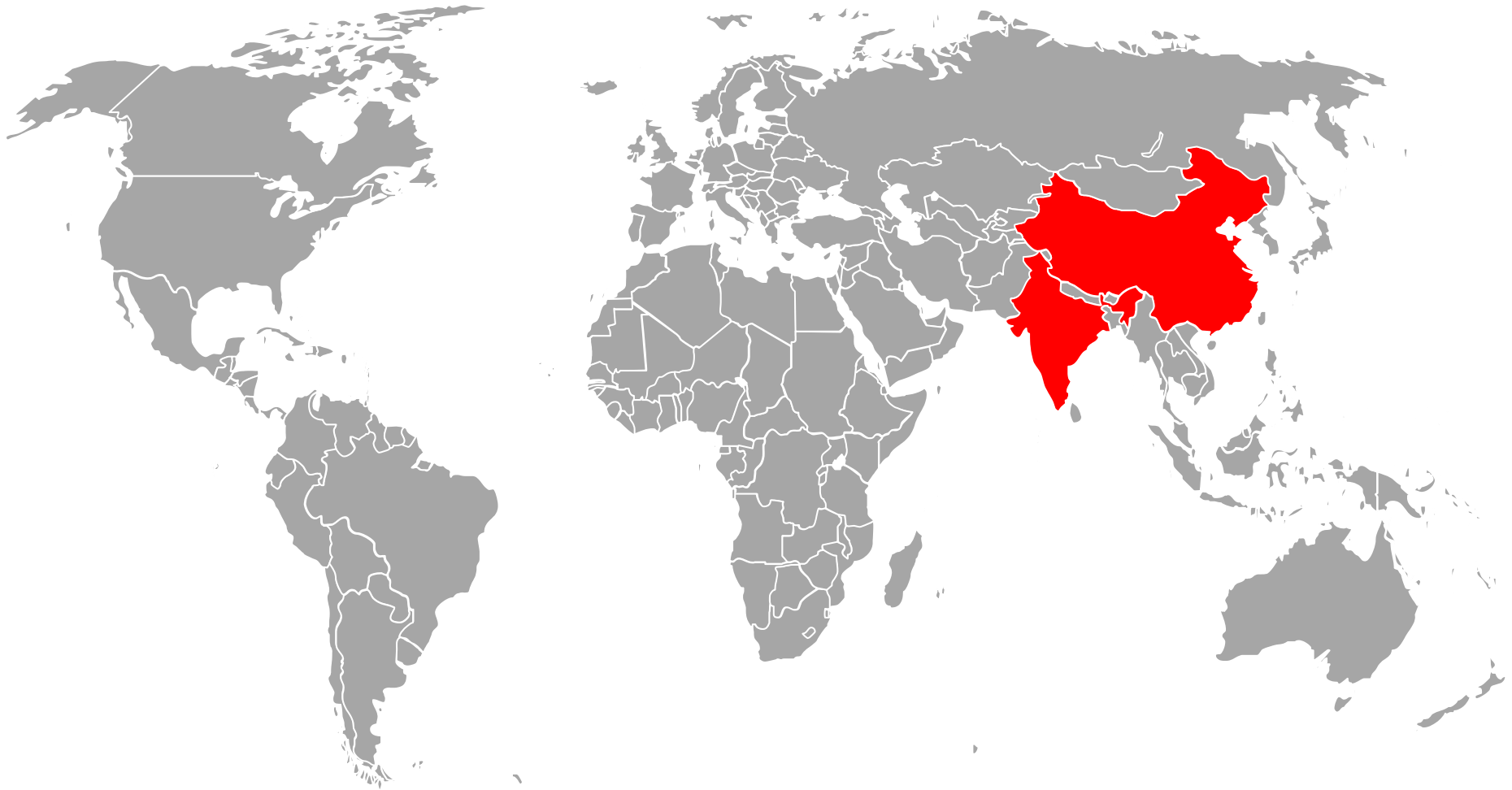




**Did you know that modern harvesting equipment are able to adjust in accordance with the conditions automatically based on intelligent systems?**

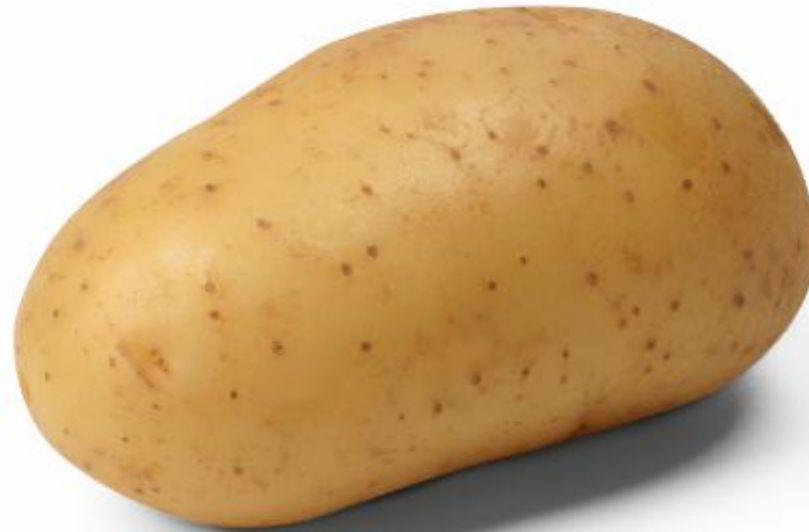


**Did you know that every third potato is produced and consumed in India and China?**



Source: FAO Stat

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# Trends: Quality via right farm management



Demofarm Yancheng Jiangsu  
Keshan Farm Heilongjiang



1. Cultivation & spring technology

2. Preservation

3. Harvest & transport

4. Storage technology



# Trends: Increase in performance



1. Cultivation & spring technology

2. Preservation

3. Harvest & transport

4. Storage technology



# Trends: Increase in performance via combination

1970



2016



1. Cultivation & spring technology

2. Preservation

3. Harvest & transport

4. Storage technology



# Trends: Increase in performance



1. Cultivation & spring technology

2. Preservation

3. Harvest & transport

4. Storage technology



# Trends: Increase in performance



1. Cultivation & spring technology

2. Preservation

3. Harvest & transport

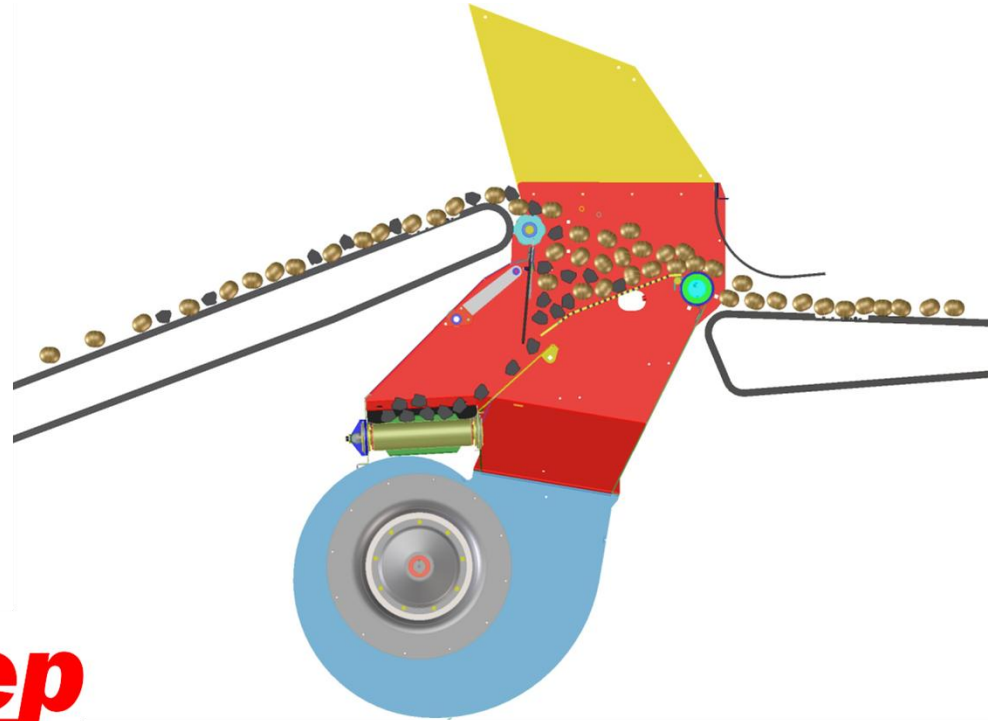
4. Storage technology







# Trends: Marketing safety through quality



**AirSep**  
Grimme Innovation

1. Cultivation & spring technology

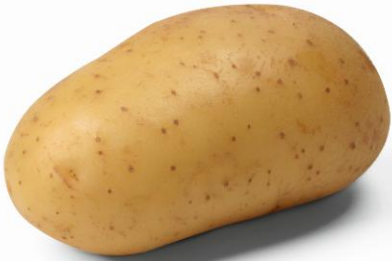
2. Preservation

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# Traditional potato handling process in India



# Mechanization of the potato handling process



# Trends: Increase in performance



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# Trends: Increase in performance



New storage lines offer capacity of over 200 tons per hour!



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# Trends: Marketing safety through quality



1. Cultivation & spring technology

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# ... and in the future?

Ca. 2025

- Leader Follower Concept?
- Data management?
- Automated units?
- New logistics systems?





# Thank you for your attention!

