

Developments and trends in farming systems in Russia, Canada and Brazil

Findings of DLG-Agrifuture Insights international survey

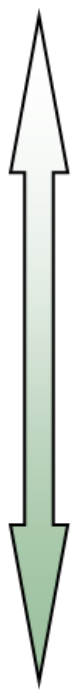
Dr. Achim Schaffner, Department Manager Agricultural Economics, DLG
(German Agricultural Society), Frankfurt am Main



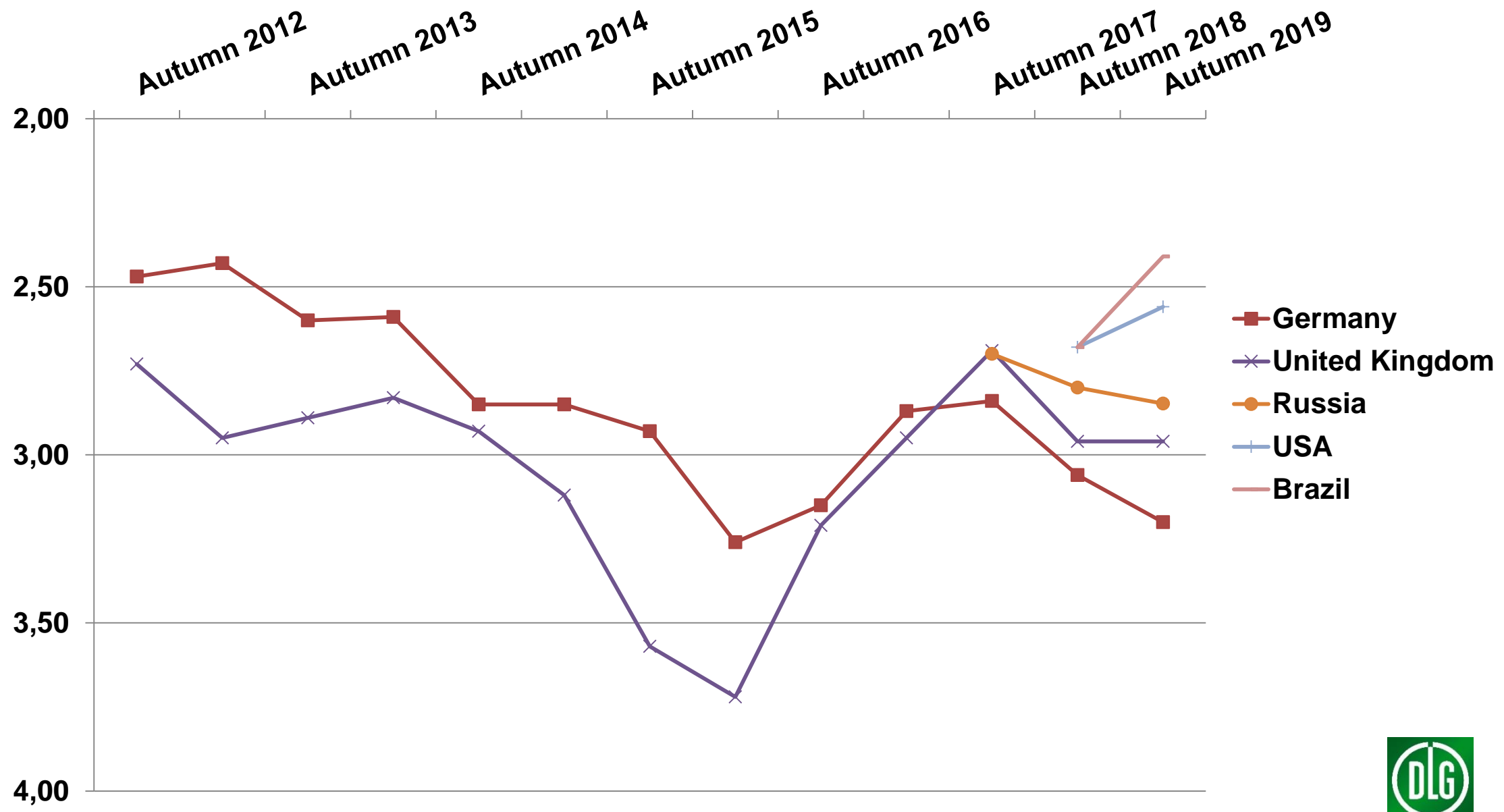
1. How plan farmers to develop their enterprises?
2. What are the challenges in arable farming, and how plan the farmers to manage the challenges?
3. What kind of innovations are in focus of arable farmers?

Business expectations: Arable farmers in USA and Brazil more optimistic

Very good



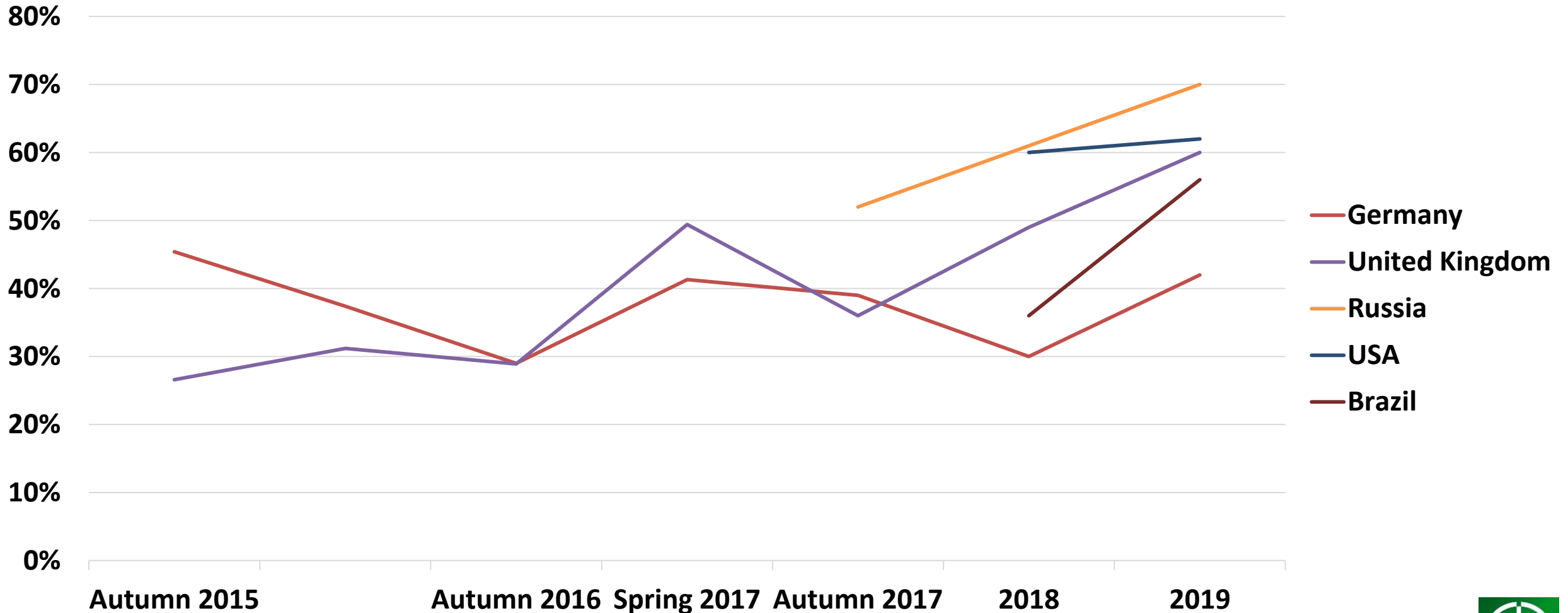
Very bad



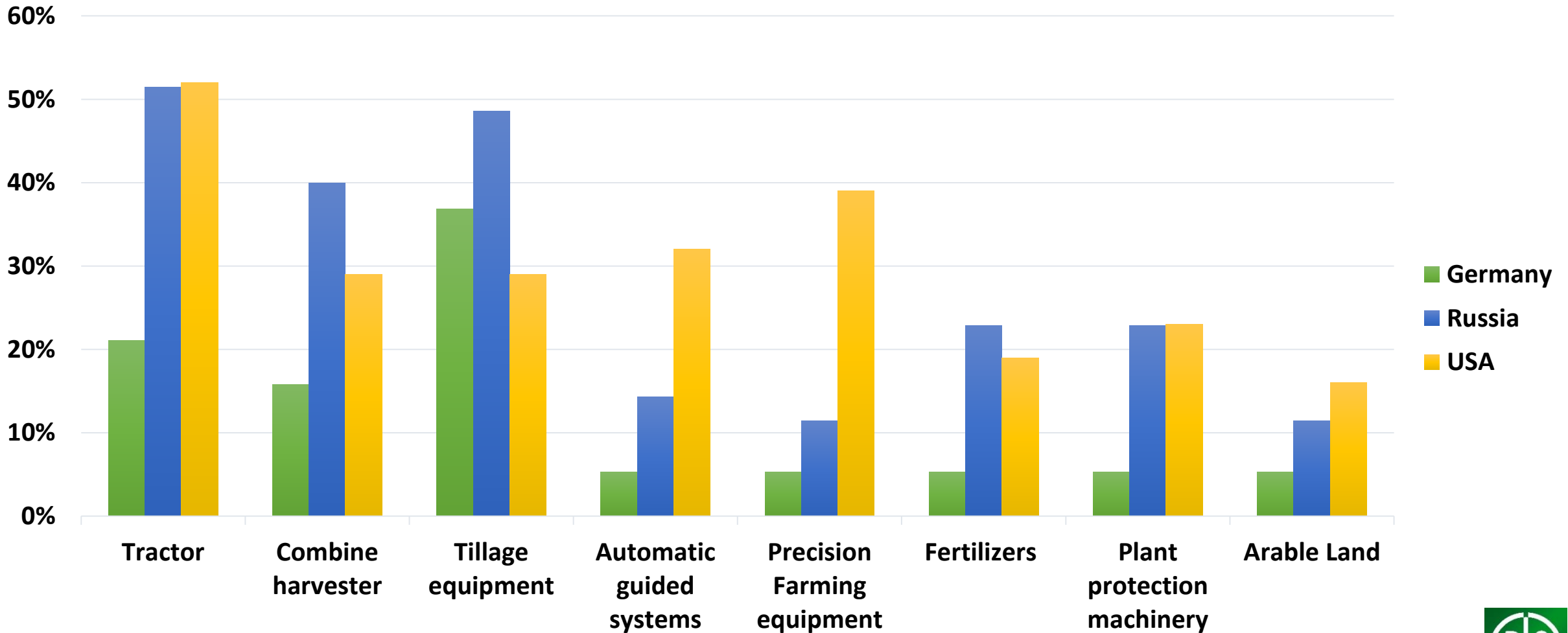
Increasing investment plans in arable farming

Are you planning to make any investments on your farm in the next 12 months?

Share of “yes” answers

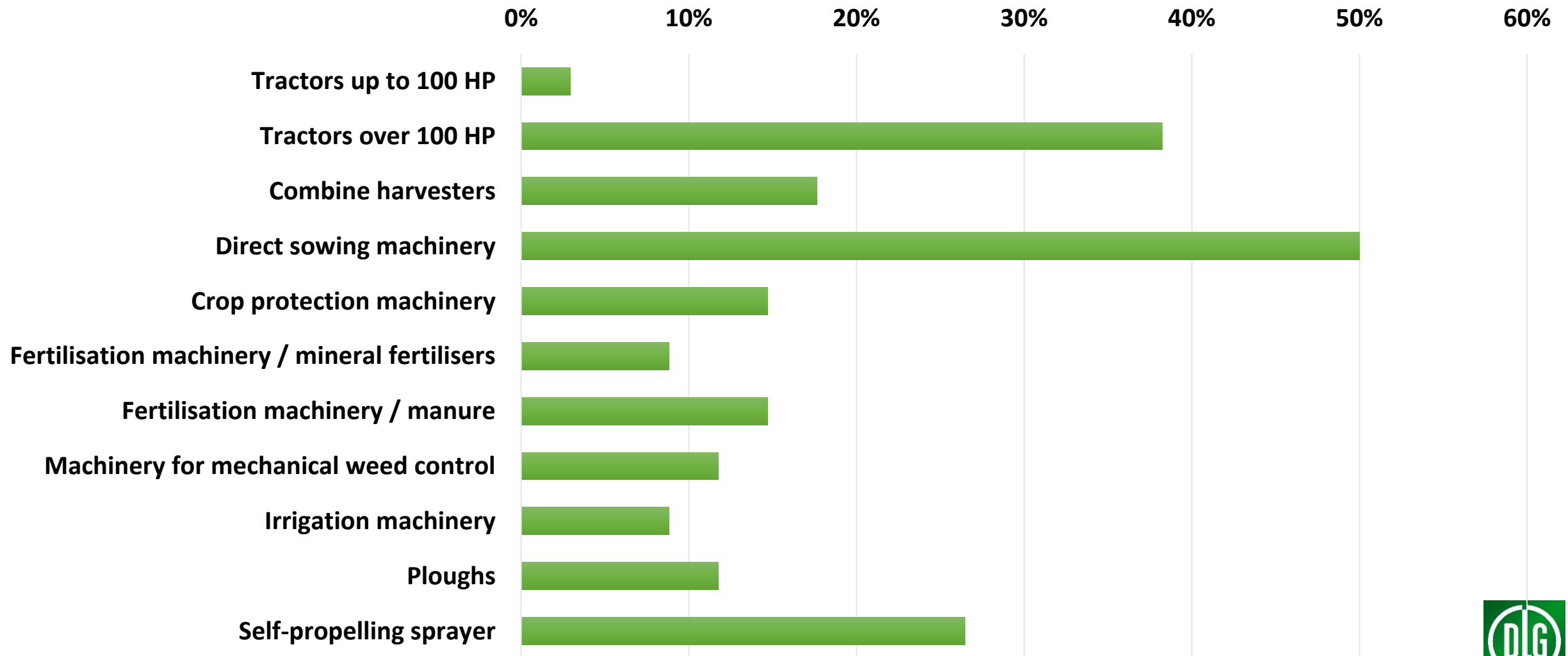


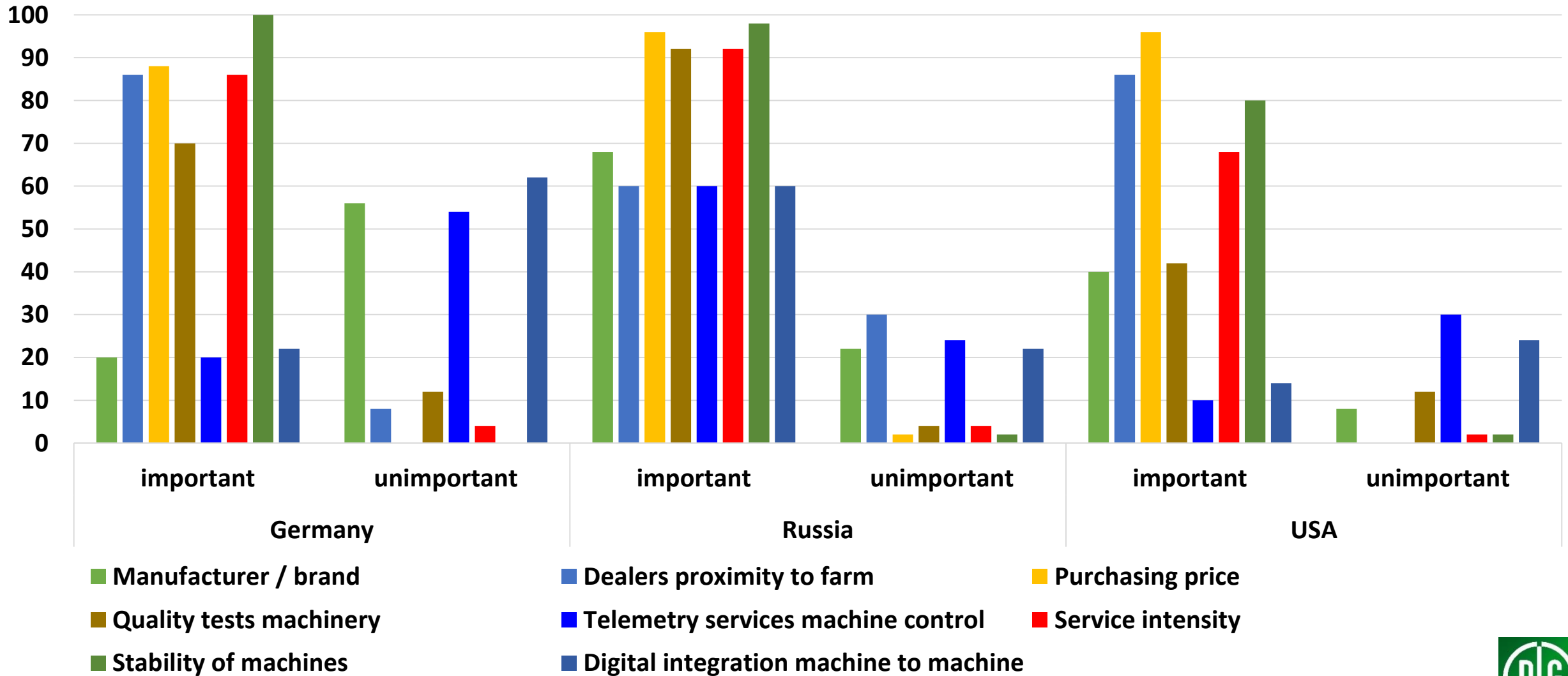
Tractors and tillage equipment is focus of farmers investments



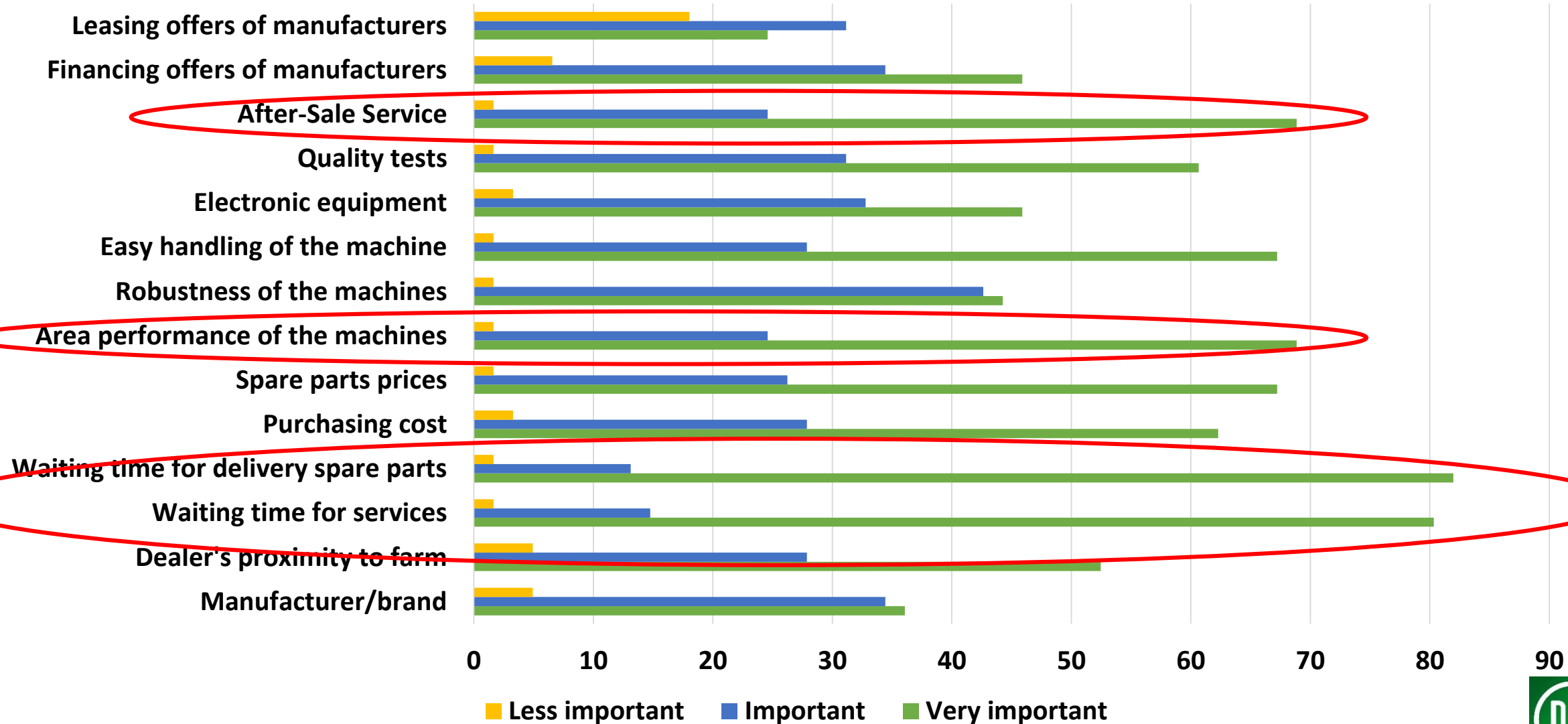
Investment plans of arable farmers in **Brazil**:

Direct seed technology and tractors in focus





Purchasing criteria of farm machinery – Brazil arable farmer



Challenges in arable farming and approaches to address them

Increasing challenges with herbicide-resistant weeds

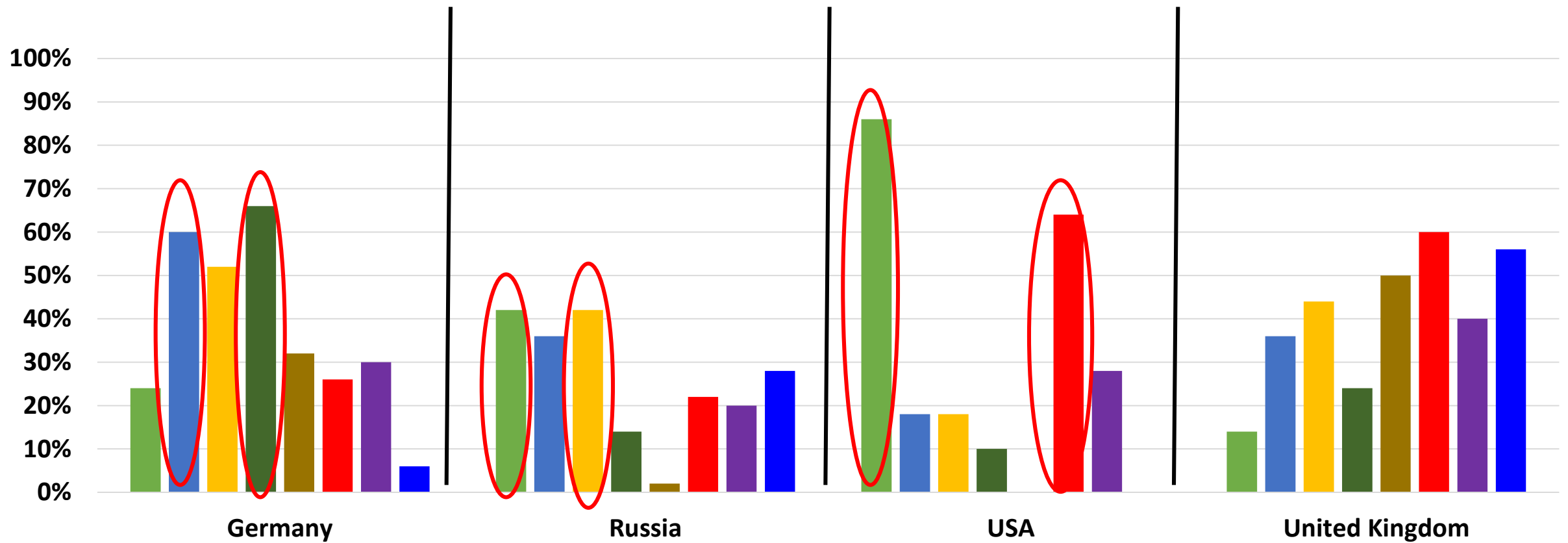
Change of climate conditions head to new conditions for arable farming:
weed control, efficient use of timetables with favourable conditions

Increase nutrient efficiency in fertilizing



Rethinking and optimizing arable production systems to meet the different challenges

Concepts of arable farmers to address challenges



Increase power of impact of mechanization

Under feed manuring

Seed at later time

Expansion crop rotation

Mechanical weed control

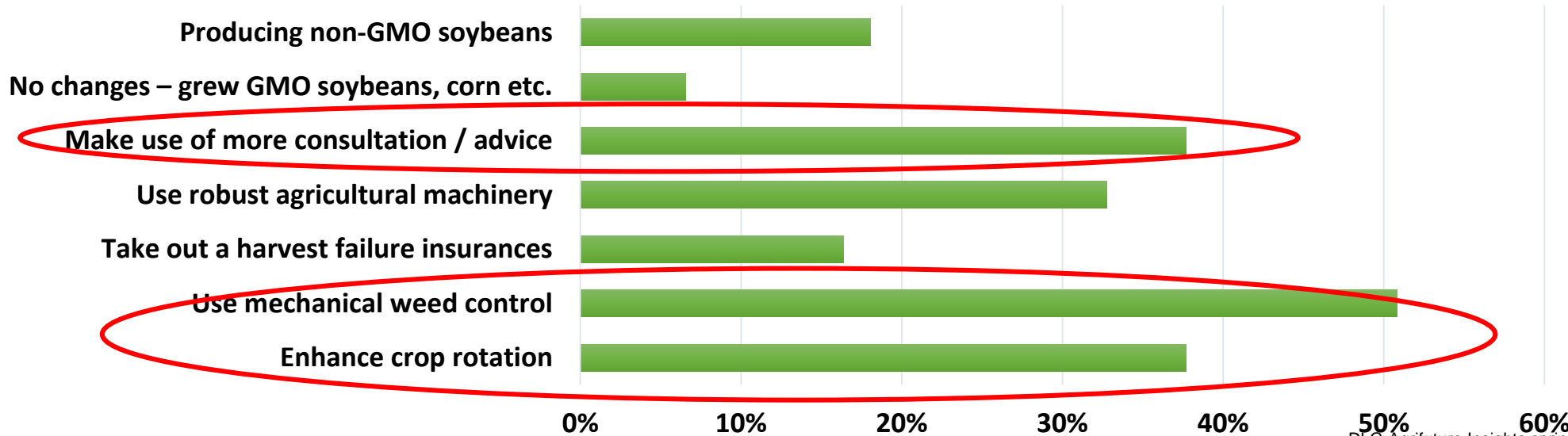
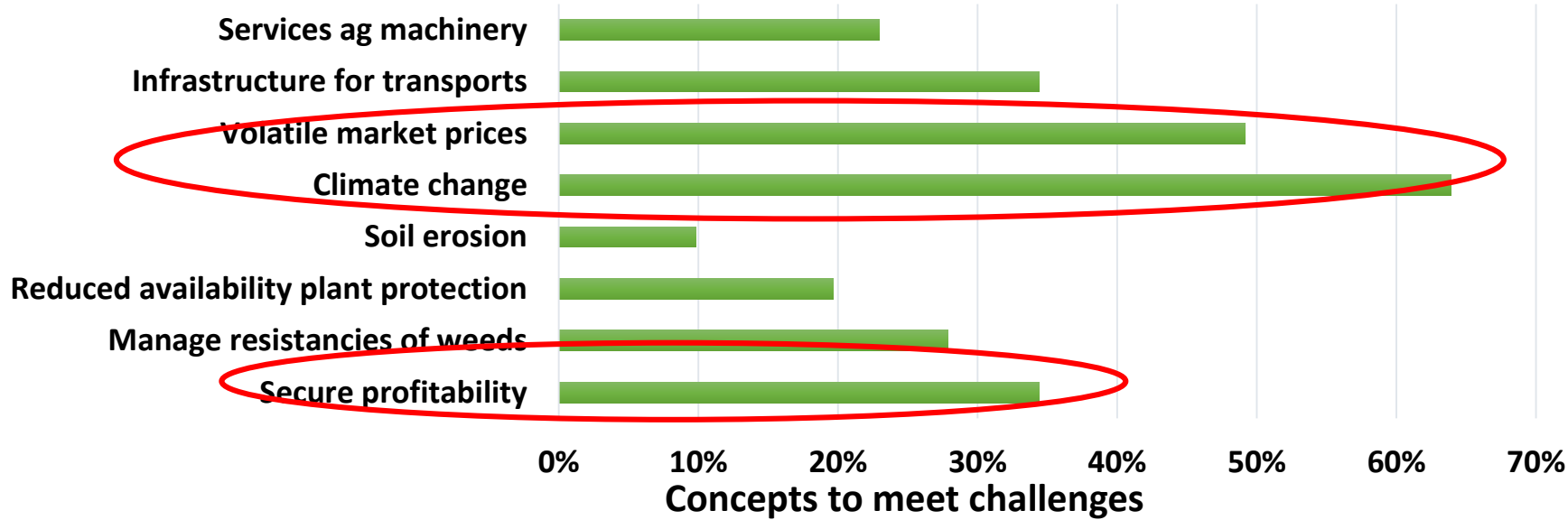
Improve field hygiene to reduce disease occurrence

Increasing organic soil components

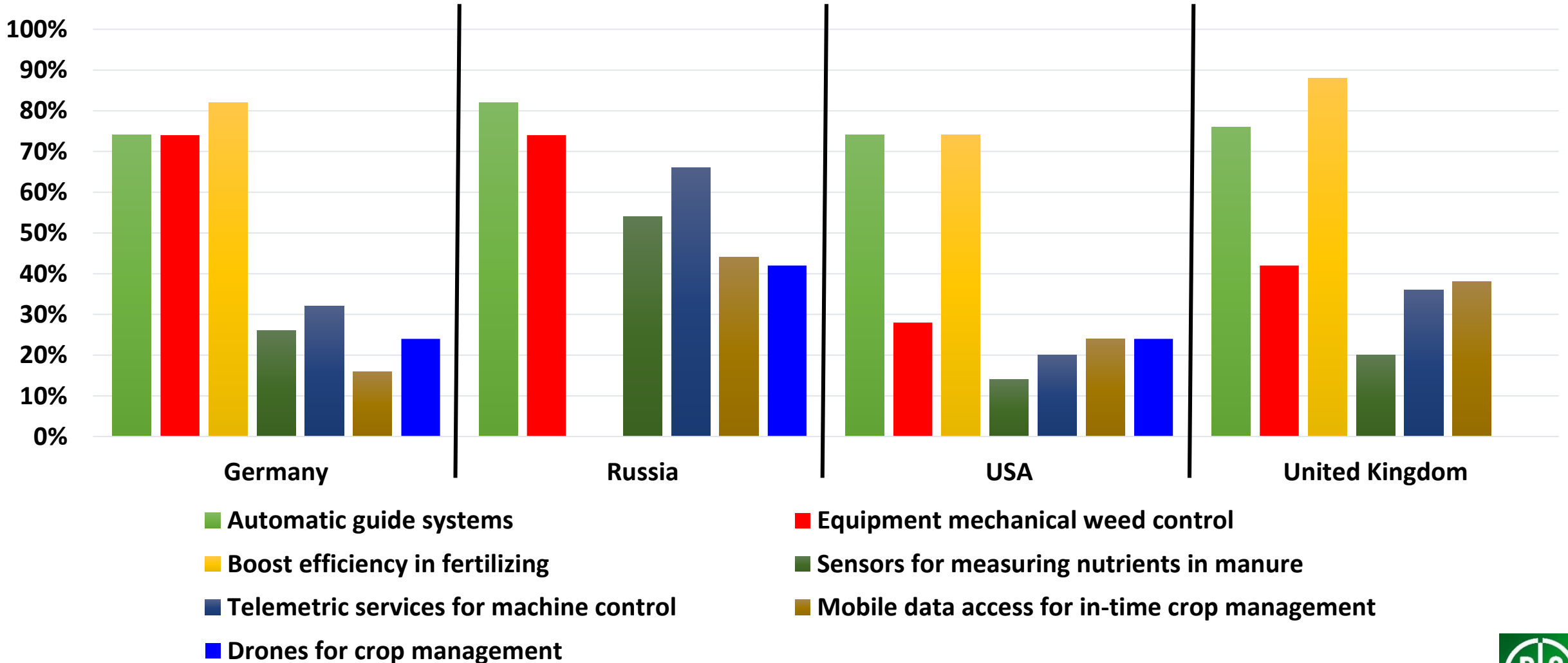
Change to organic farming



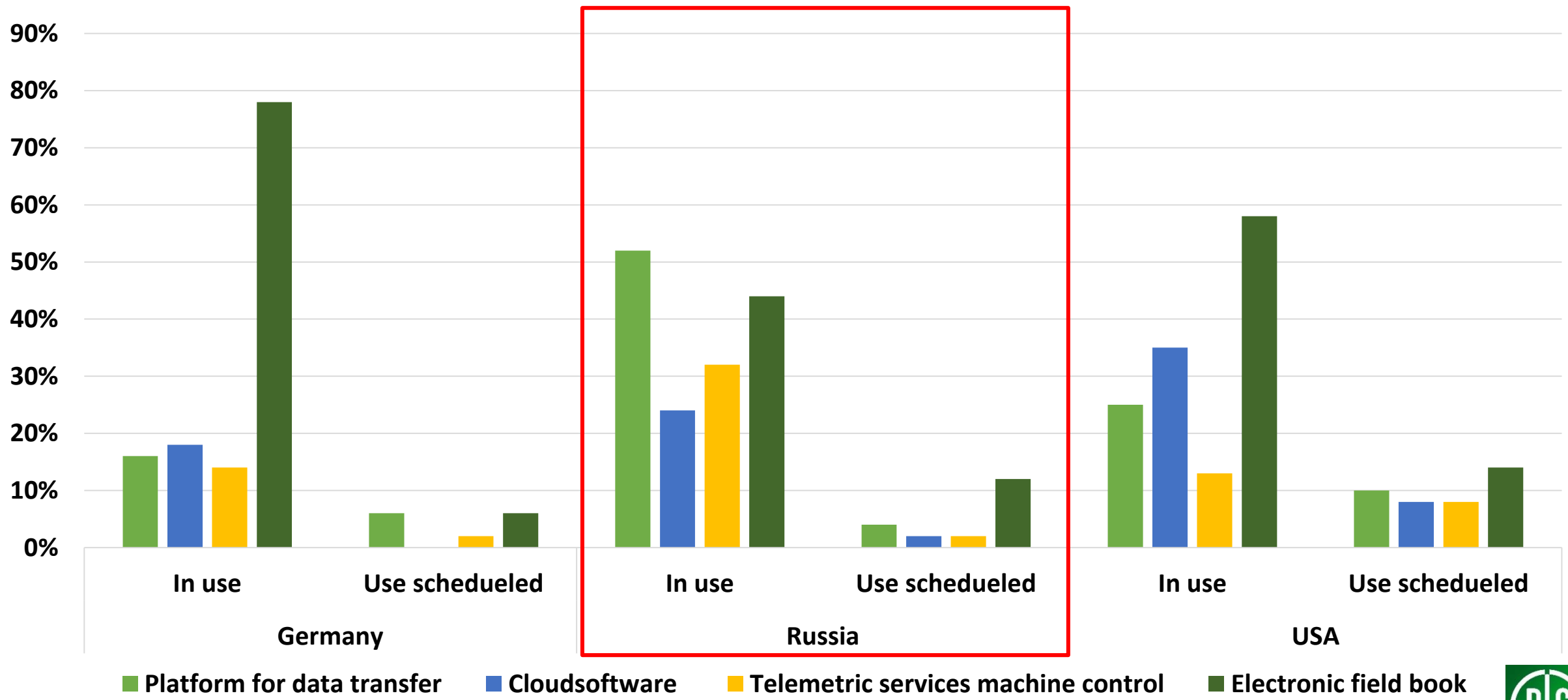
Challenges in arable farming



High demand on innovations in technology to meet farmers' needs



Digitization: What kind of tools arable farmers are using already and what kind of tool they plan to use



Conclusions – Business climate and investments

Business climate and investment intentions

- Expectations on business development: Russian arable farmers less optimistic, US and Brazilian farmers more optimistic compared to 2018 survey
- Despite low price level and unsecure market conditions due to trade conflicts, arable farmers plan to expand farm investments

Concepts of arable farmers that address challenges

- Russia: Increase power of impact and under feet manuring
- Brazil: Mechanical weed control, expand of crop rotation and advice services

Importance of technology trends

- Russia: automatic guided systems, mechanical weed control and telemetric services in focus

To address challenges, arable farmers need to develop solutions suited to their location. Manufacturers need to better understand the needs of farmers in order to offer the right approach to develop farming systems.

Methodology of survey and farm structure of surveyed farmer

Methodology of survey

- Countries
 - Germany ,United Kingdom, Russia, Brazil, USA
 - Time of questioning
 - March 2019 (Brazil) July + August 2019
-
- methodology of questioning
 - CATI (computer aided telephone interviews)
 - Trendmonitor: survey twice/year autumn 2003 – spring 2017
 - DLG-Agrifuture Insights: survey once/year since autumn 2017
 - Sample
 - Total N = 750 Interviews (150 each country, 50 each arable, dairy and pig farming)
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Realization of questioning:



Farm structure of interviewed farmers

	Ø utilisable agricultural area (ha)	Ø share of leased land (Percentage of farmed land)	Ø number of dairy cows/farm	Ø number of finishing pigs/farm
Germany	307	49	155	1.149
France	201	70	135	1.378
United Kingdom	353	34		
Poland	442	34	84	1.165
Netherlands	142	30	238	4.146
Russia	21.532	47	789	61.495

Website: [DLG e.V. - DLG-Agrifuture Insights](#)