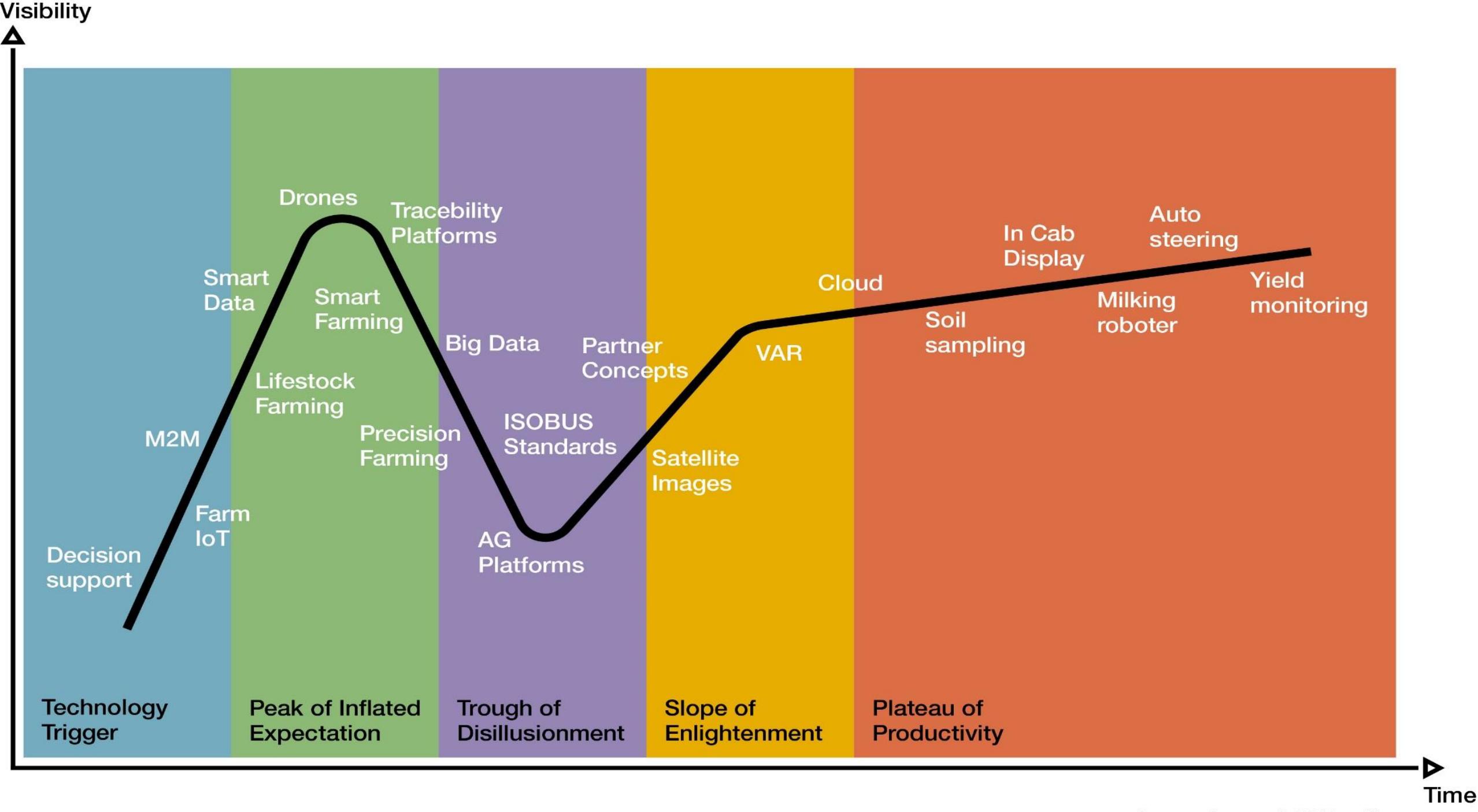


IoT Deployment and Business Challenges for the Agri-Food sector

- what lies ahead?

Klaus-Herbert Rolf





Technical challenge – Limitations



Social challenges – Transparency



365 days a year from anywhere



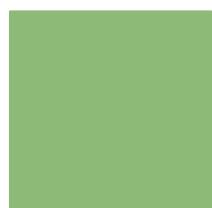
Automated documentation



Data entry and information by mobile device



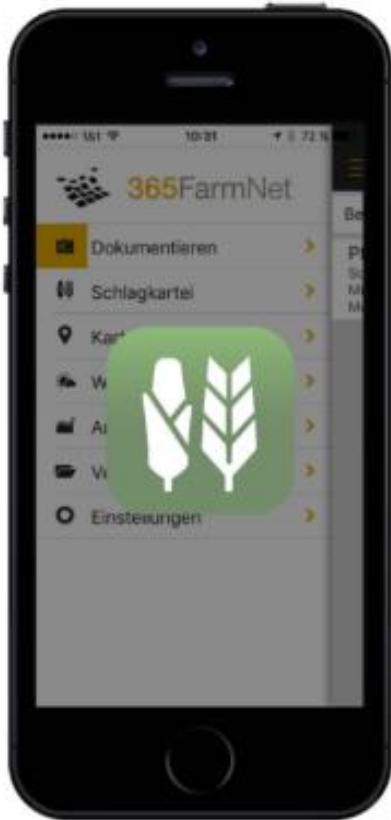
Cross Compliance



Visualizing evaluations



Data entry and information by mobile device –
> 365FarmNet always at hand



365Crop App



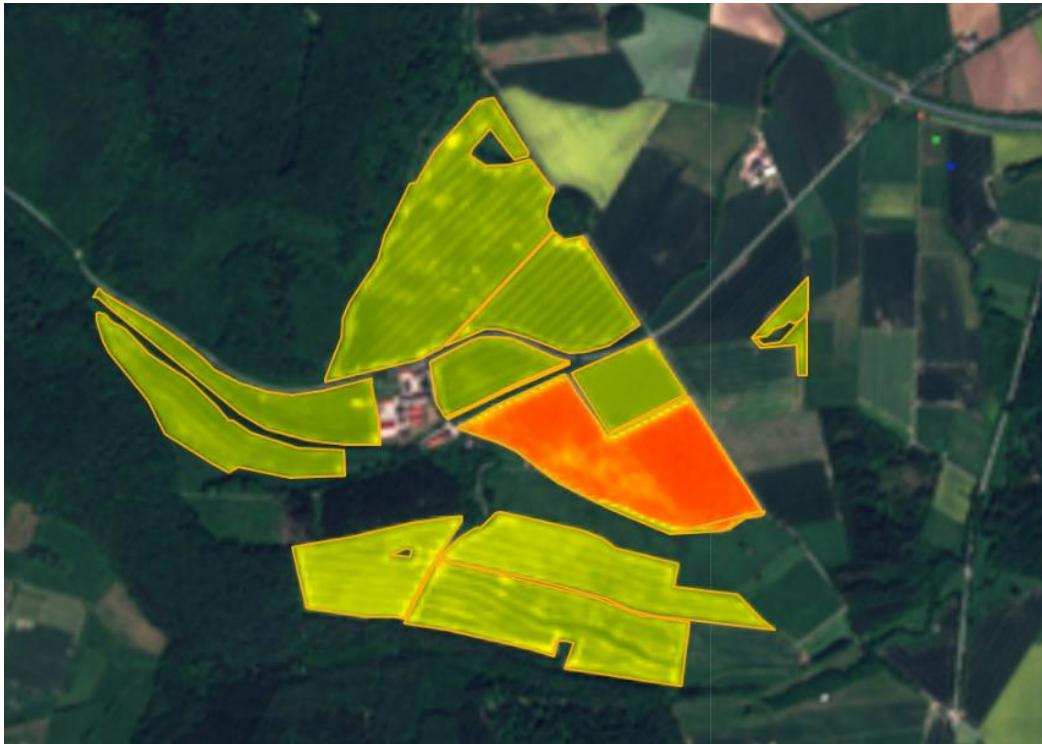
365Cattle App



365Active App

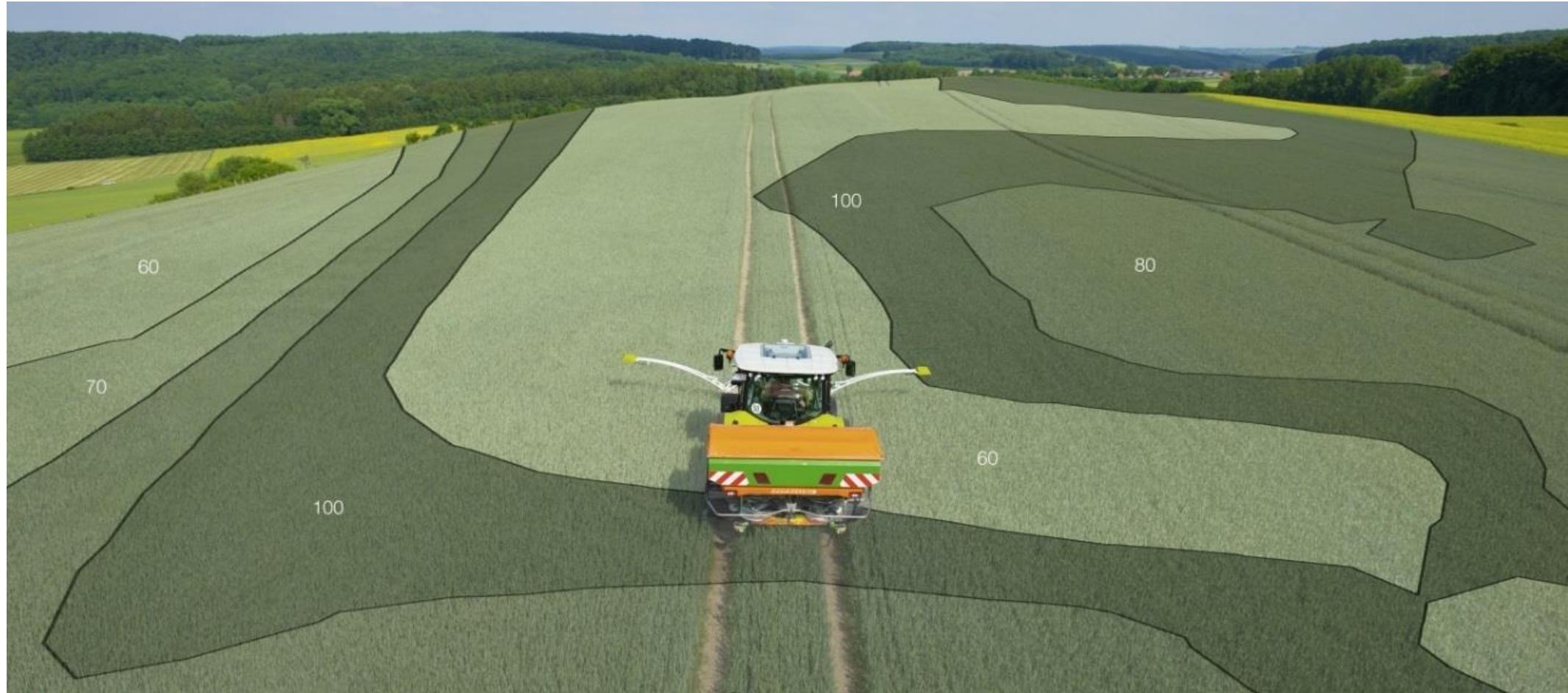


Visualizing evaluations – > Change the perspective





Visualizing evaluations – > Sensors – Reduce and optimize the input



Component: Field optimization



365FarmNet

Manage Plan Document Analyze Shop

Register with 365Farmnet now Demo User Help

Maps Calendar

My Farm Crops

Machines Fieldroute optimisation Precision Farming

Fields

no.	Name	Area (ha)
13-01	Katzbachwiesen-03	6.85
14-01	Brunnen-links	0.80
14-02	Brunnen-rechts	0.61
15-00	Hinterm Wald	1.00
54-00	Eisenhöhe	4.95
57-00	Husemann	4.74
<input checked="" type="checkbox"/>	58-00 East Field	12.00

Machine

Headland width 0.00 m

Working width 0.00 m

Headland speed 0.00 km/h

Working speed 0.00 km/h

Create partfields

Display tracks

Westenholzer Str. Westenholzer Str. Westenholzer Str.

Westenholzer Str. Westenholzer Str. Westenholzer Str.

Google

Kartendaten © 2017 GeoBasis-DE/BKG (©2009), Google Grafiken © 2017, DigitalGlobe, GeoBasis-DE/BKG, GeoContent | Nutzungsbedingungen | Fehler bei den Google Maps melden

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Result of a machine with a working width of 15 Meters



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Fields

no.	Name	Area (ha)
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15-00	Hinterm Wald	1.00
54-00	Eisenhöhe	4.95
57-00	Husemann	4.74
<input checked="" type="checkbox"/>	58-00 East Field	12.00

Machine Slurry Tanker

Headland width 15.00 m

Working width 15.00 m

Headland speed 8.00 km/h

Working speed 8.00 km/h

Create partfields

Display tracks

Route results

Working time	1.12 h
Time in the field	0.71 h
Time in the headland	0.41 h
Area	11.11 ha
Number of turns	18
Route length	8.93 km

Route results

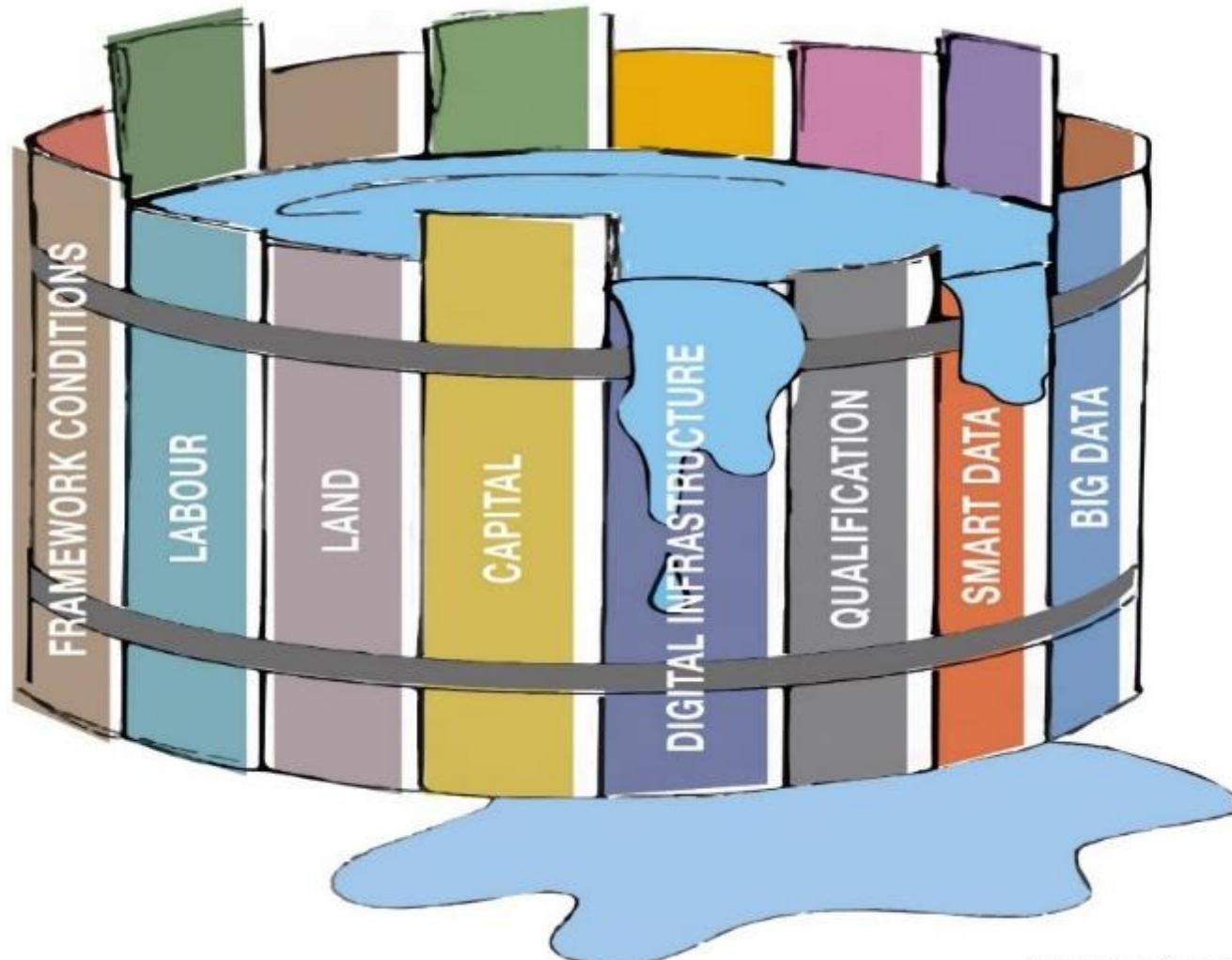
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Partnership concept



Conclusion and future prospects



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The challenge of the future: more intelligence on the m2





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