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Landwirtschaft leben.

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Facts & Figures

1985

Foundation

1.300

Employees

500

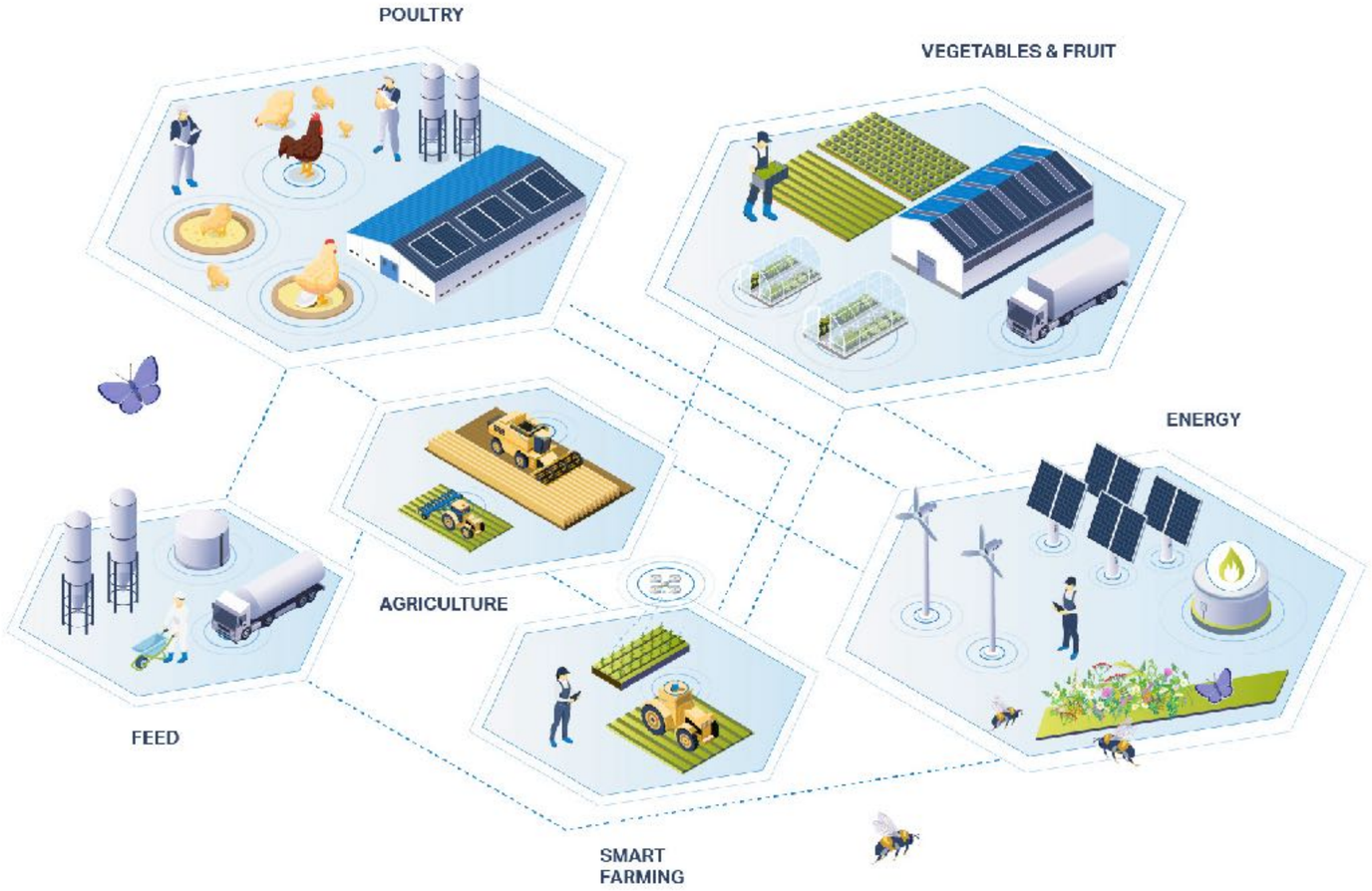
million annual turnover

(non consolidated)

Wimex Group

WIMEX GROUP
Landwirtschaft leben.
Geflügel
Gemüse & Obst
Energie
Smart Farming
WIMEX Agrar
COBB GERMANY
Probroed & Sloot
Broederij Lagerwey
Bördegarten
WIMEX Energie
geo-konzept
iXMAP

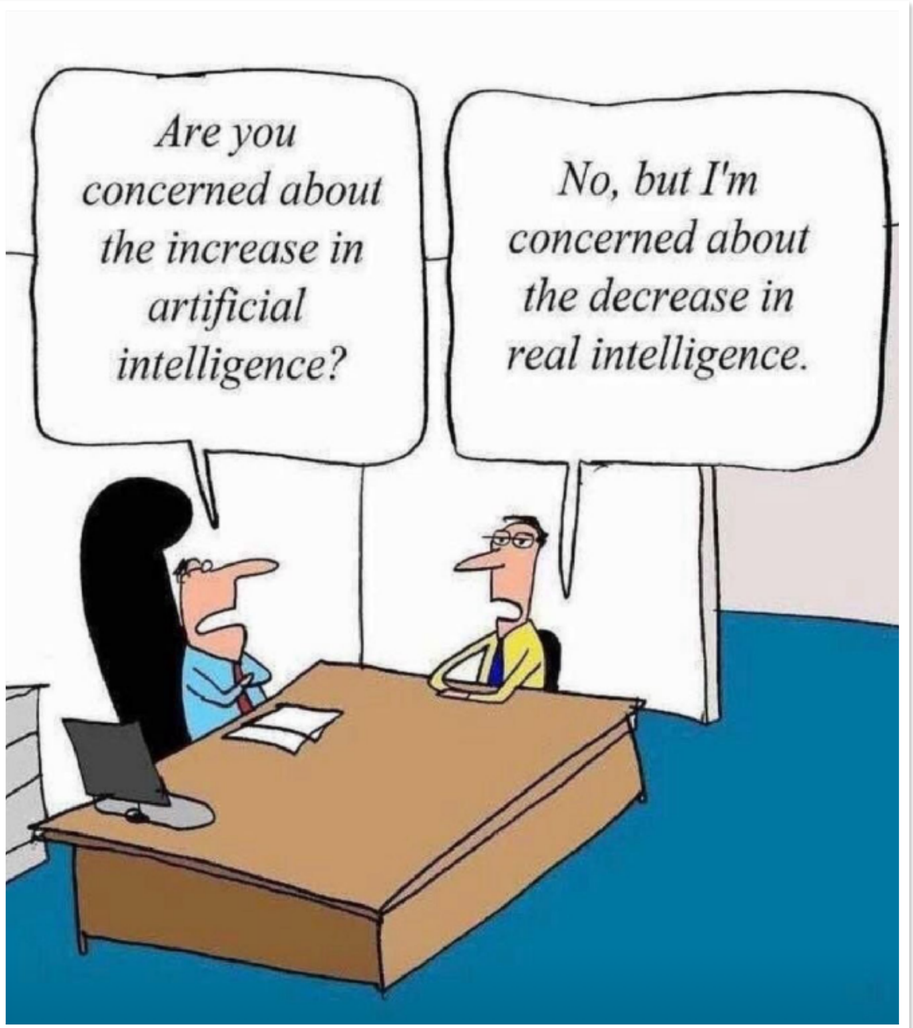
Our Value Network



Challenges

- many very different structures
- no uniform data structures
- no uniform standard software
- Development of new controlling tools
- BI reports and KPI pyramids

Why do I personally support increasing our competence in the company in the context of data literacy?



Source Daniel Sym-Smith

- to intelligently combine the complex data structures
- to unite the analog world with the digital one
- automating process steps
- reducing personal dependency in the business

- I see this as one of the last opportunities to significantly increase the competitiveness in productivity of a larger family business

✳ Prescription and prediction! (Better decision - Better planning)

➡ and that's the reason to push it from the C-level

How to grow Data Literacy in a SME

First of all, you need a **vision**!

➡ We want to be a data driven company - highly automated

Why?

Answers to the shortage of skilled workers and quick, fact-based decision-making processes give us the opportunity to react to increasing requirements and still remain competitive

Second:

Build the foundation

- Mandate (Executive Alignment)
- Champions
- Central service offered by IT
- Operating Model
- Motivated team
  - Business Application Owner
  - IT Application Owner

Enterprise User Journey

Champions

- look for skills in the company
- Assign roles and capacities
- Division of users into those who know KNIME and those who do not know it
- Addressing the groups differently
- Provide incentive for further training

Domain Experts | Business Experts | Business Analyst | Software Engineer | IT/ORGA/Admin

Data Experts | Data Specialist | Data Analyst | Data Engineer | Data Scientist

Data Engineer

H.Stärk

Data Scientist

N.N.

Data Wrangler

We

Datenspezialisten

Heiser

Langgartner…

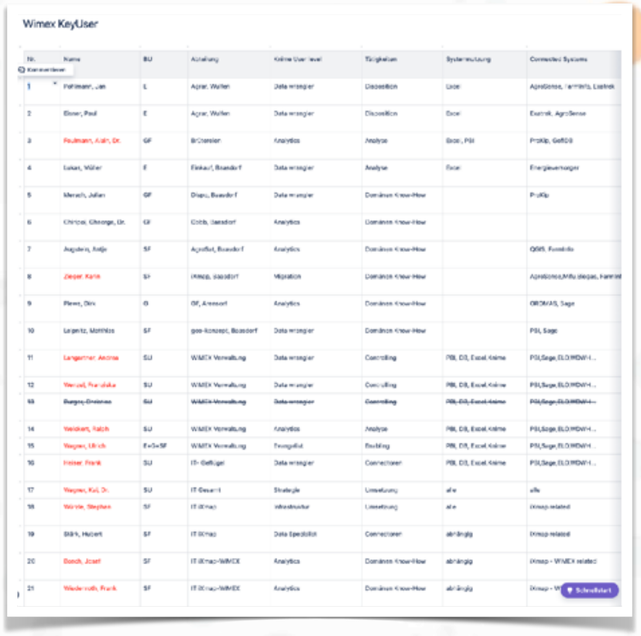
Software

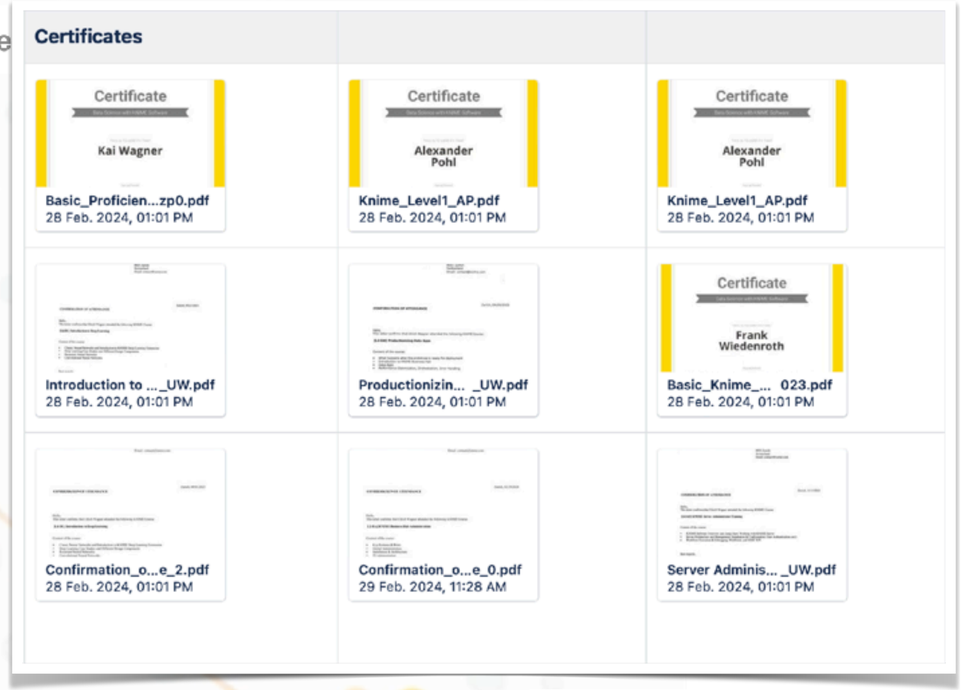
Marketer

U.Wagner

Auditor

K.Wagner



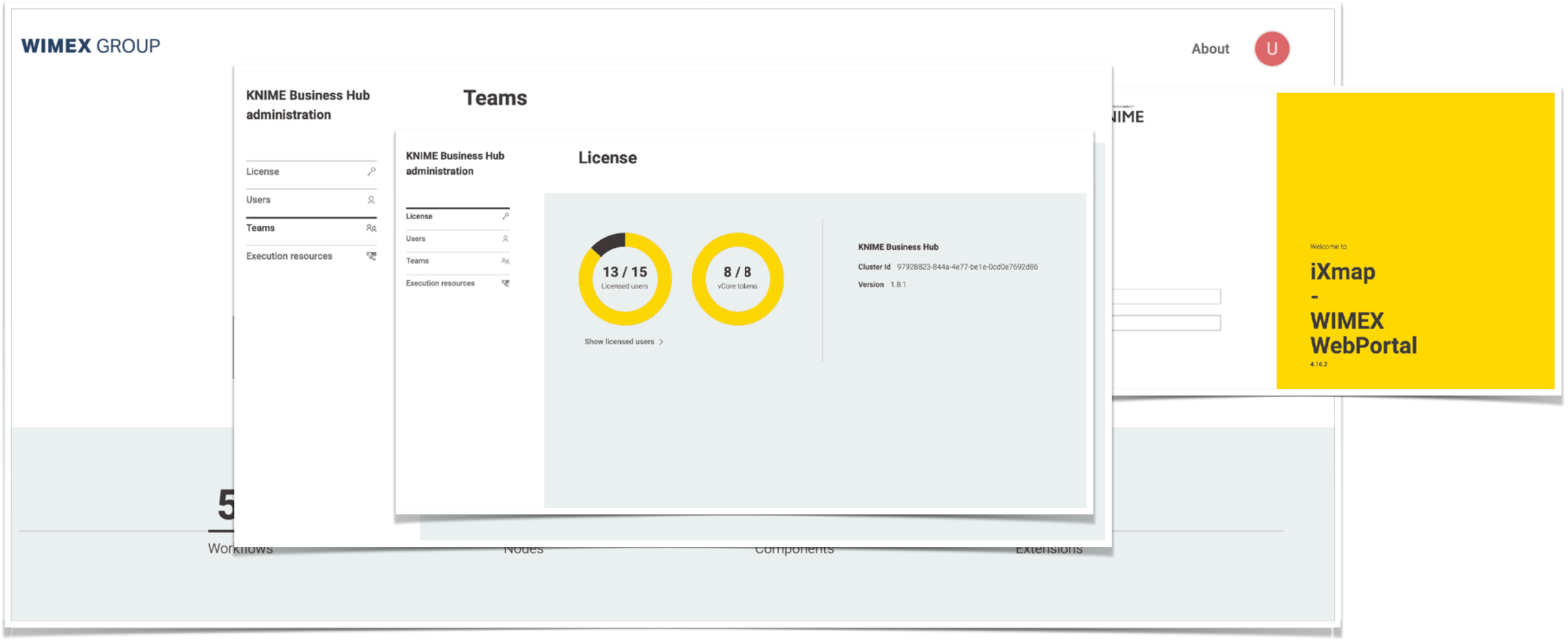


Identify WIMEX Key-Users

KNIME Business Hub

from the KNIME server to the KNIME Hub

Provide KNIME Business Hub



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Confluence Page

KNIME Knowledge Base

Central service offered by IT

Data App daily liquidity

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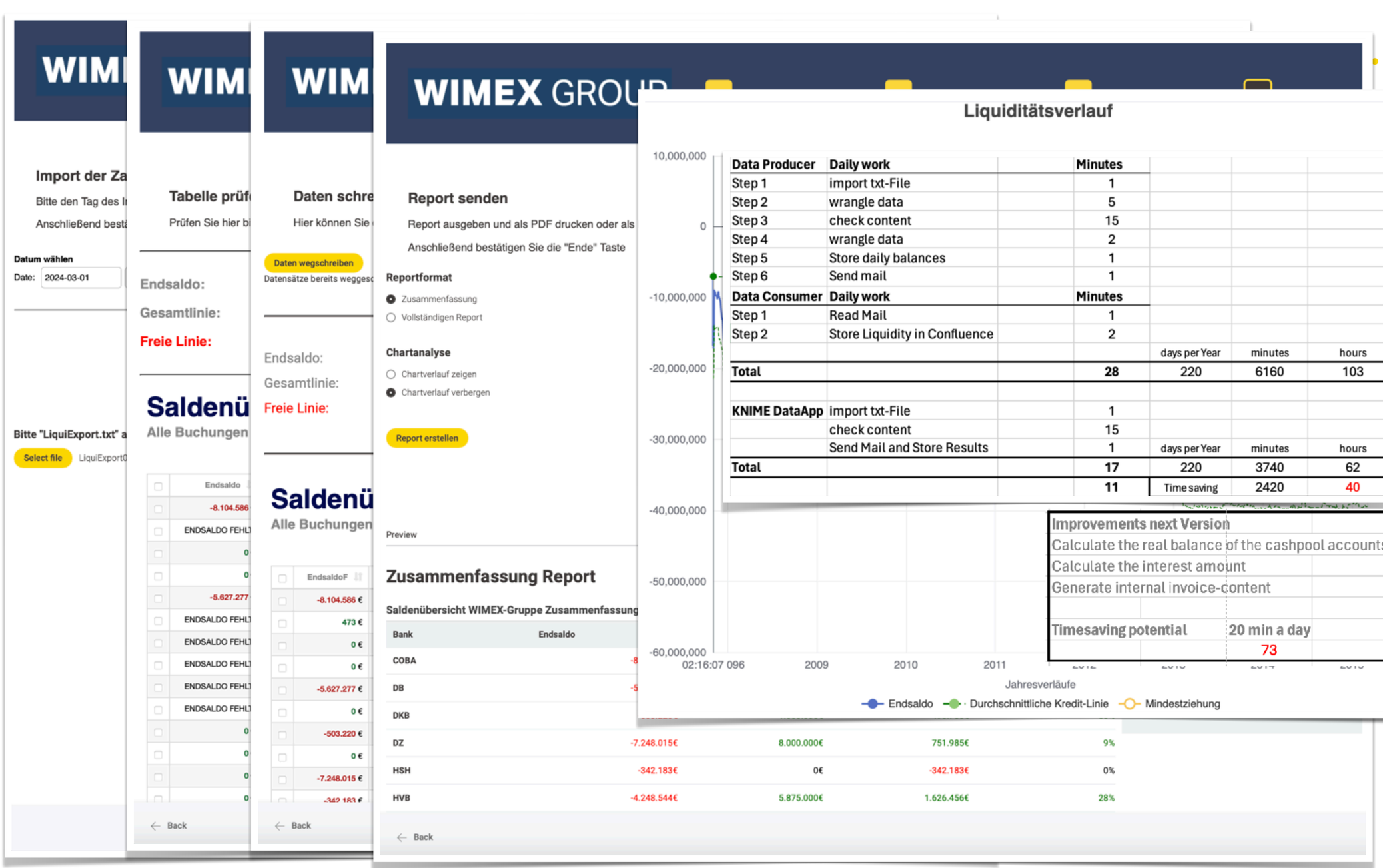


Data Producer	Daily work	Minutes			
Step 1	import txt-File	1			
Step 2	wrangle data	5			
Step 3	check content	15			
Step 4	wrangle data	2			
Step 5	Store daily balances	1			
Step 6	Send mail	1			
Data Consumer	**Daily work**	**Minutes**			
Step 1	Read Mail	1			
Step 2	Store Liquidity in Confluence	2			
			days per Year	minutes	hours
Total		**28**	220	6160	103
KNIME DataApp	import txt-File	1			
	check content	15			
	Send Mail and Store Results	1	days per Year	minutes	hours
Total		**17**	220	3740	62
		11	Time saving	2420	40

Improvements next Version	
Calculate the real balance of the cashpool accounts	
Calculate the interest amount	
Generate internal invoice-content	
Timesaving potential	20 min a day
	73

First use of a descriptive model

Develop and present application examples

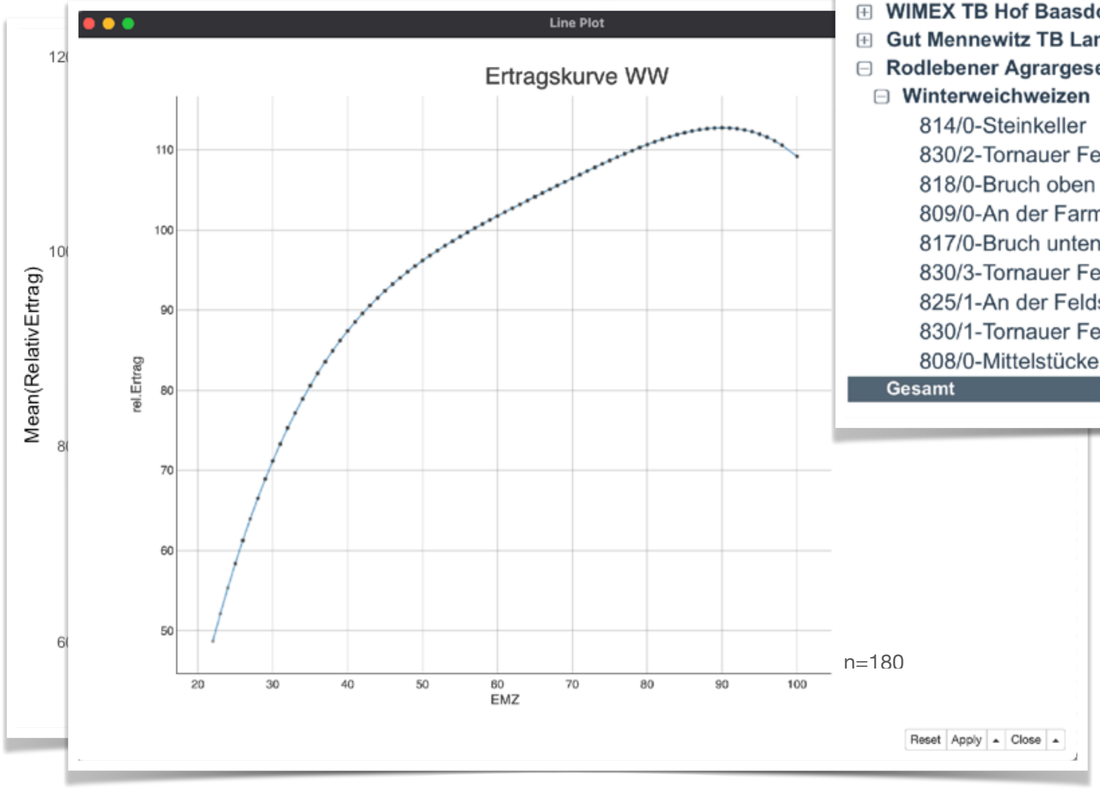
ASK Facts v1.2

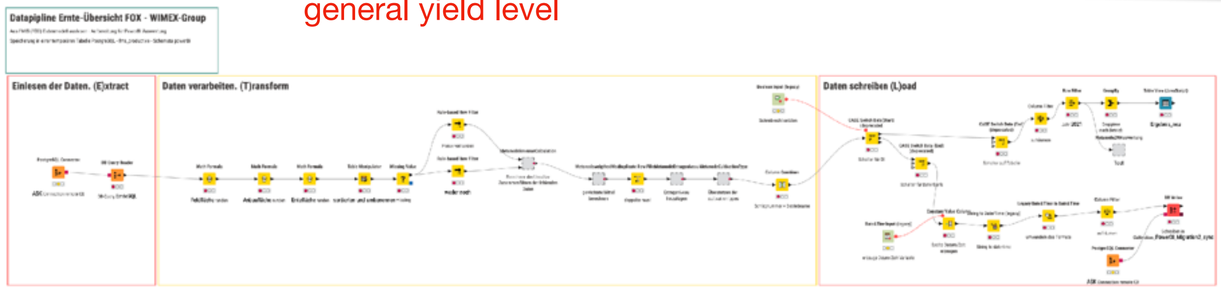
Betriebsname	Fruchtart	Erntejahr	Bewirtschaftungstyp
Alle	Winterweichweizen	2023	Alle

12.03.2024 09:20:00
letzte Aktualisierung

Betriebsname	Anbaufläche	allg. Ertragsniveau	Ø Planertrag	Ø Ertrag Hauptfrucht	differenz Ertrag	Kulturpreis	Er
"Bördegarten" Gemüse GmbH & Co. KG	252,16 ha	41,36 "dt/ha"	1,74 "dt/ha"	62,73 "dt/ha"	Unendlich	32,5 €/dt	
Agrar-Dienst-Nauendorf GmbH	349,85 ha	65,71 "dt/ha"	64,72 "dt/ha"	80,91 "dt/ha"	Unendlich	32,5 €/dt	
Agrargesellschaft Wulfen mbH	1.101,56 ha	67,15 "dt/ha"	45,25 "dt/ha"	58,82 "dt/ha"	Unendlich	32,5 €/dt	
Gunnar Johannes	64,36 ha	62,20 "dt/ha"	0,00 "dt/ha"	50,54 "dt/ha"	Unendlich	32,5 €/dt	
WIMEX TB Hof Baasdorf	68,23 ha	76,60 "dt/ha"	0,00 "dt/ha"	66,74 "dt/ha"	Unendlich	32,5 €/dt	
Gut Mennewitz TB Landwirtschaft	92,35 ha	70,71 "dt/ha"	65,00 "dt/ha"	86,84 "dt/ha"	33,59 %	32,5 €/dt	
Rodlebener Agrargesellschaft mbH	154,88 ha	61,71 "dt/ha"	60,00 "dt/ha"	58,70 "dt/ha"	-2,17 %	32,5 €/dt	
Winterweichweizen	154,88 ha	61,71 "dt/ha"	60,00 "dt/ha"	58,70 "dt/ha"	-2,17 %	32,5 €/dt	
814/0-Steinkeller	41,06 ha	61,48 "dt/ha"	60,00 "dt/ha"	69,82 "dt/ha"	16,37 %	32,5 €/dt	
830/2-Tornauer Feld	25,21 ha	64,99 "dt/ha"	60,00 "dt/ha"	65,90 "dt/ha"	9,83 %	32,5 €/dt	
818/0-Bruch oben	45,03 ha	64,36 "dt/ha"	60,00 "dt/ha"	59,80 "dt/ha"	-0,33 %	32,5 €/dt	
809/0-An der Farm	,92 ha	48,00 "dt/ha"	60,00 "dt/ha"	56,90 "dt/ha"	-5,17 %	32,5 €/dt	
817/0-Bruch unten	4,43 ha	64,36 "dt/ha"	60,00 "dt/ha"	55,42 "dt/ha"	-7,63 %	32,5 €/dt	
830/3-Tornauer Feld	4,57 ha	64,99 "dt/ha"	60,00 "dt/ha"	52,67 "dt/ha"	-12,22 %	32,5 €/dt	
825/1-An der Feldscheune	12,36 ha	66,68 "dt/ha"	60,00 "dt/ha"	46,36 "dt/ha"	-22,73 %	32,5 €/dt	
830/1-Tornauer Feld	2,76 ha	63,70 "dt/ha"	60,00 "dt/ha"	35,79 "dt/ha"	-40,35 %	32,5 €/dt	
808/0-Mittelstücken rechts	18,54 ha	47,00 "dt/ha"	60,00 "dt/ha"	35,60 "dt/ha"	-40,67 %	32,5 €/dt	
Gesamt	2.083,39 ha	63,70 "dt/ha"	42,35 "dt/ha"	64,24 "dt/ha"	Unendlich	32,5 €/dt	

general yield level





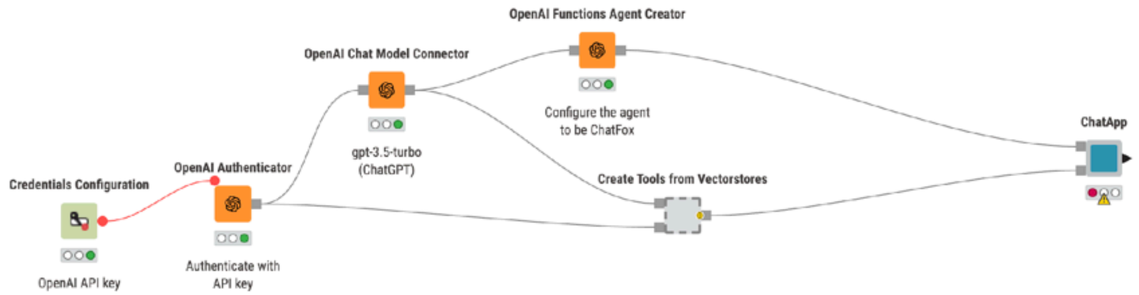
Chat GPD - first trials

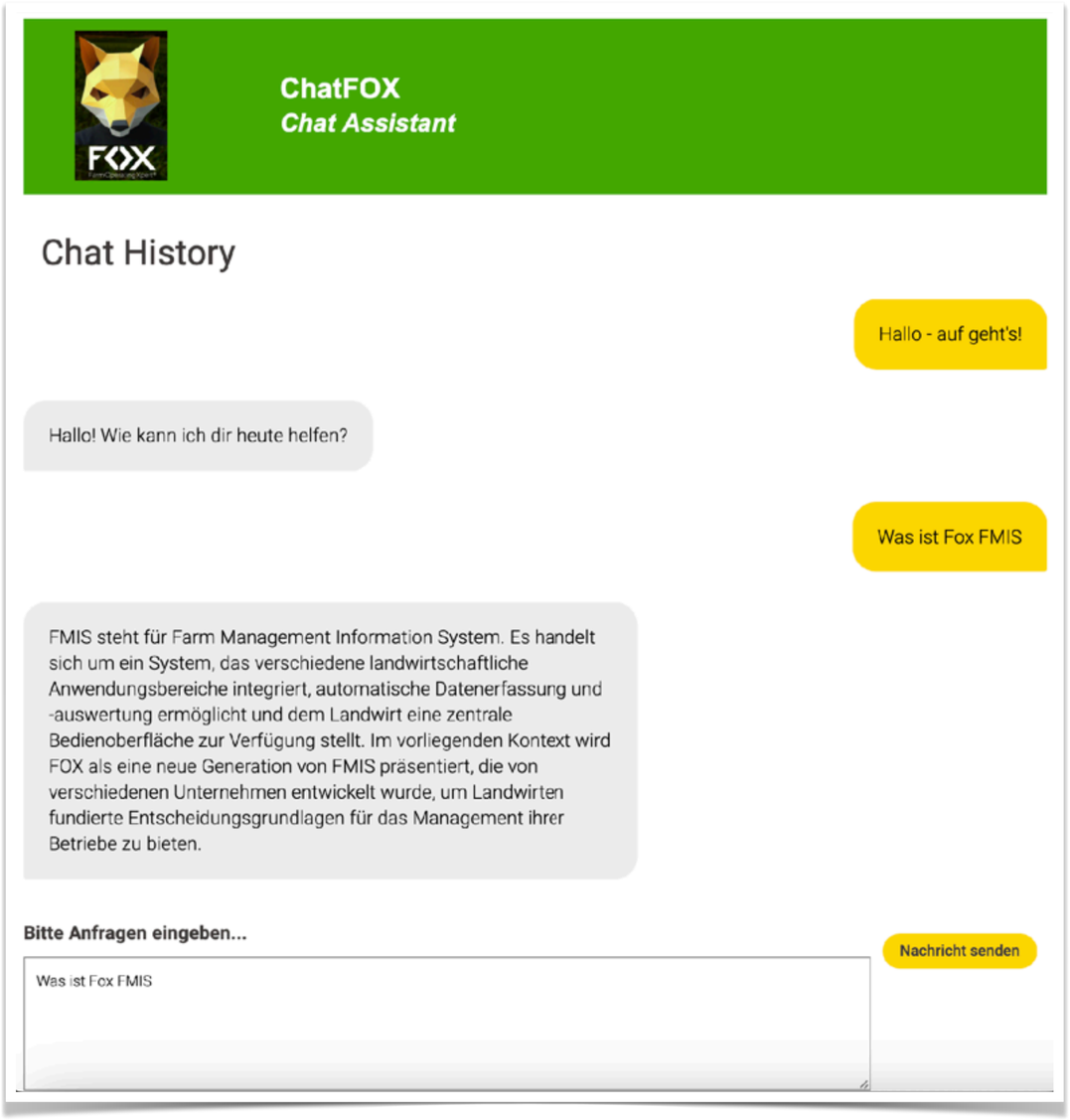
Use of personalized LLM-Models

Develop and present application examples

OpenAI Functions Agent ChatApp - ChatFox Ökotext Variante 1 Fließtext

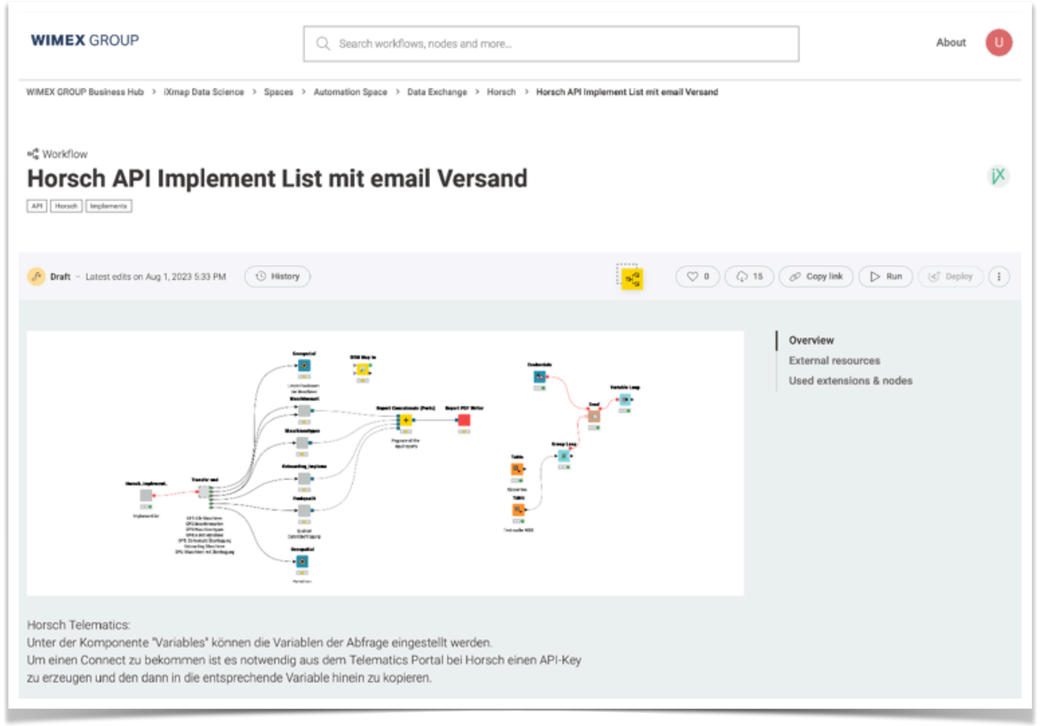
- Der Workflow zeigt eine DataApp mit einer Chatfunktion mit angereicherten Daten aus einem oder mehreren Vector-Store(s)
- Login mit OpenAI Credentials und Nutzung eines ChatGPD Chat-Modells
- Embedden von eigenen Daten im Format FAIIS Vector-Files
- Index Files in Unterverzeichnissen halten Text in Modell kompatiblem Format vor
- Ausgabe des Chatbots in Form einer DataApp





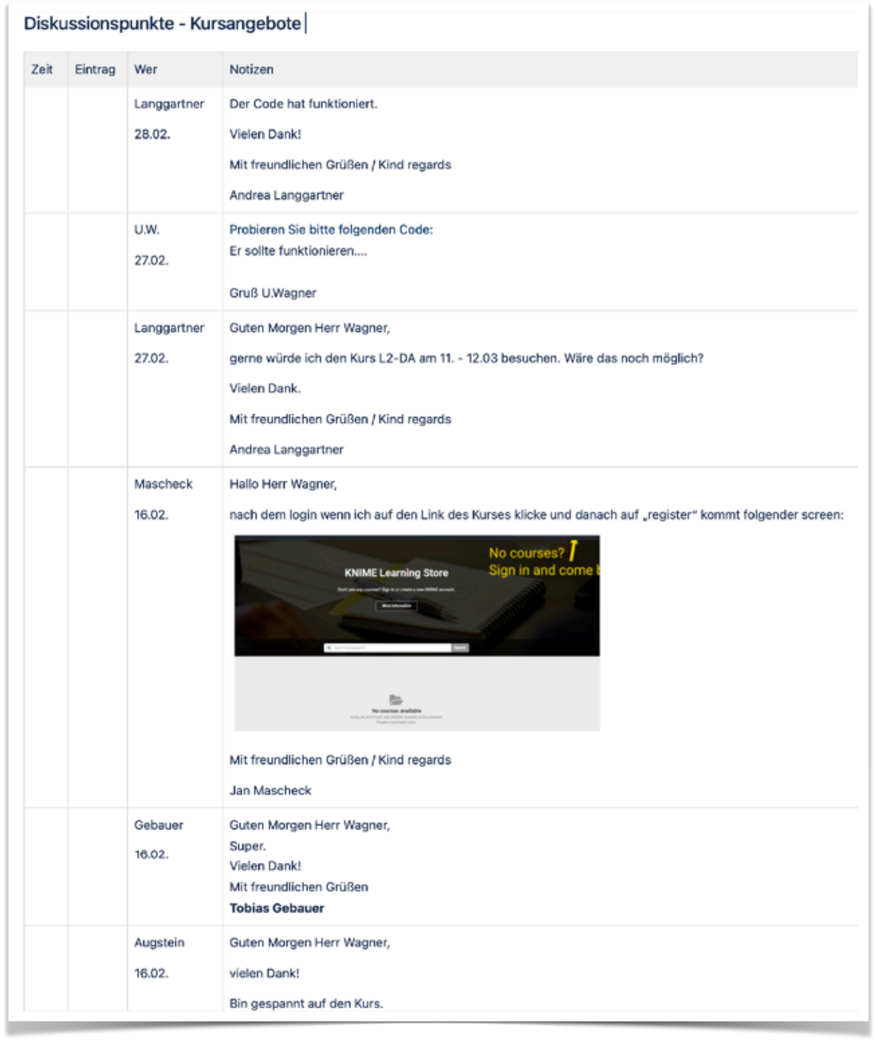
Motivate the team

Incentives for courses and feedback via vouchers



give ownership to business and domain experts

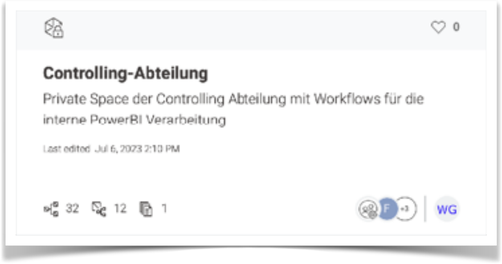
Try to get a motivated Team



Diskussionspunkte - Kursangebote

Zeit	Eintrag	Wer	Notizen
		Langgartner 28.02.	Der Code hat funktioniert. Vielen Dank! Mit freundlichen Grüßen / Kind regards Andrea Langgartner
		U.W. 27.02.	Probieren Sie bitte folgenden Code: Er sollte funktionieren.... Gruß U.Wagner
		Langgartner 27.02.	Guten Morgen Herr Wagner, gerne würde ich den Kurs L2-DA am 11. - 12.03 besuchen. Wäre das noch möglich? Vielen Dank. Mit freundlichen Grüßen / Kind regards Andrea Langgartner
		Mascheck 16.02.	Hallo Herr Wagner, nach dem login wenn ich auf den Link des Kurses klicke und danach auf „register" kommt folgender screen: Mit freundlichen Grüßen / Kind regards Jan Mascheck
		Gebauer 16.02.	Guten Morgen Herr Wagner, Super. Vielen Dank! Mit freundlichen Grüßen **Tobias Gebauer**
		Augstein 16.02.	Guten Morgen Herr Wagner, vielen Dank! Bin gespannt auf den Kurs.

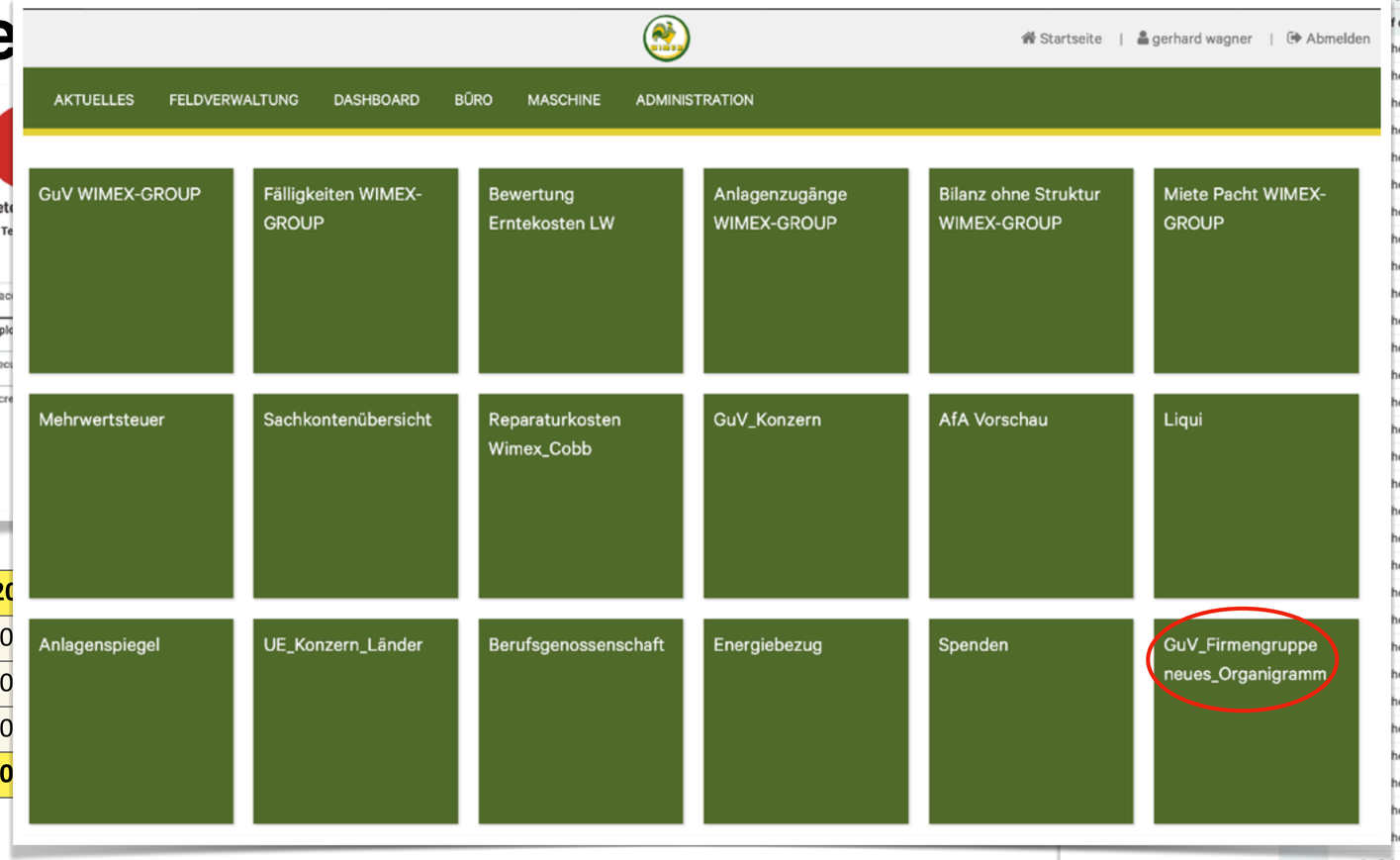
give ownership to departments

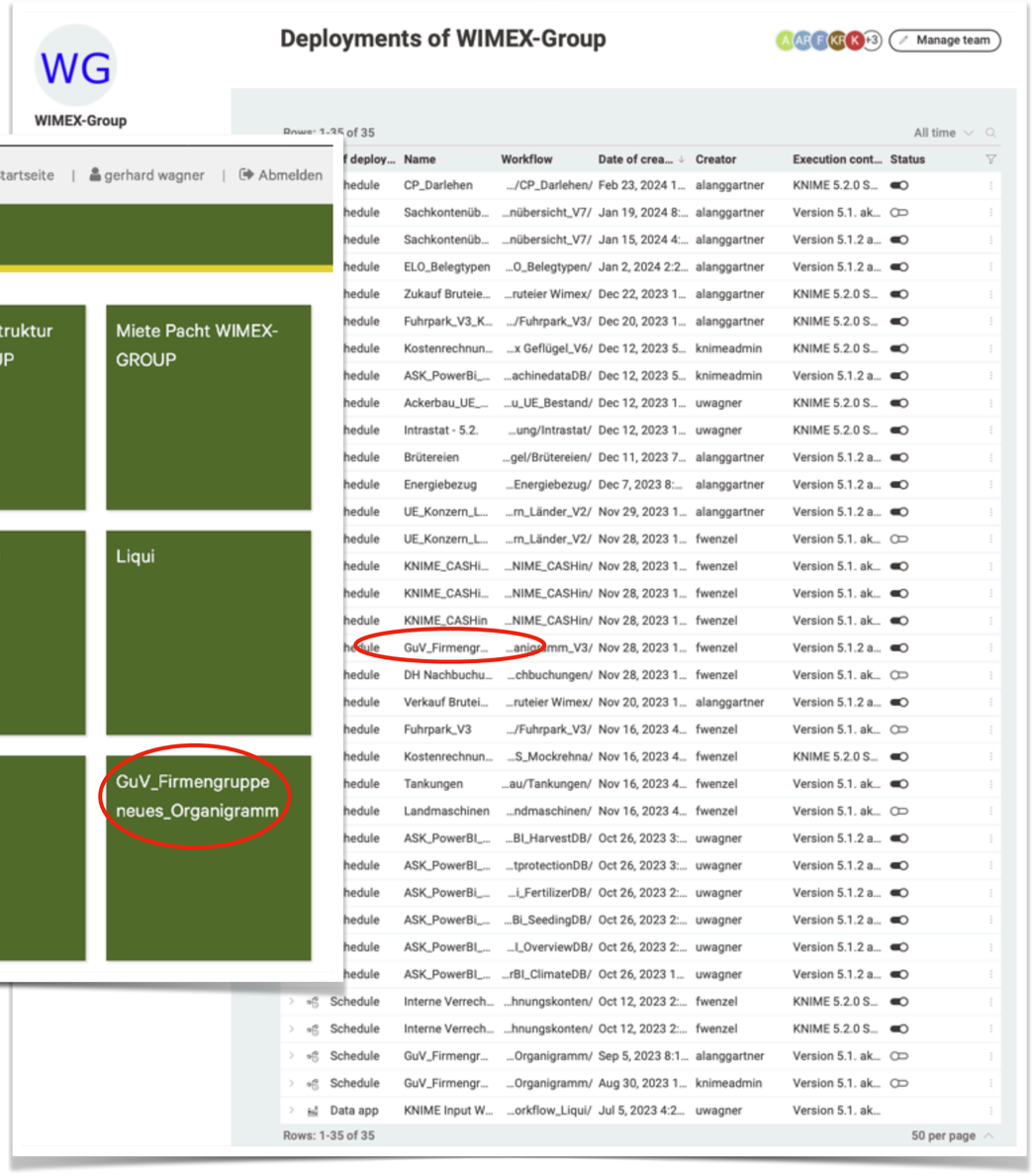


Get things done

Increase

Projekttypen		2020
Automation		0
Descriptive		0
Predictive		0
Über Alles		**0**



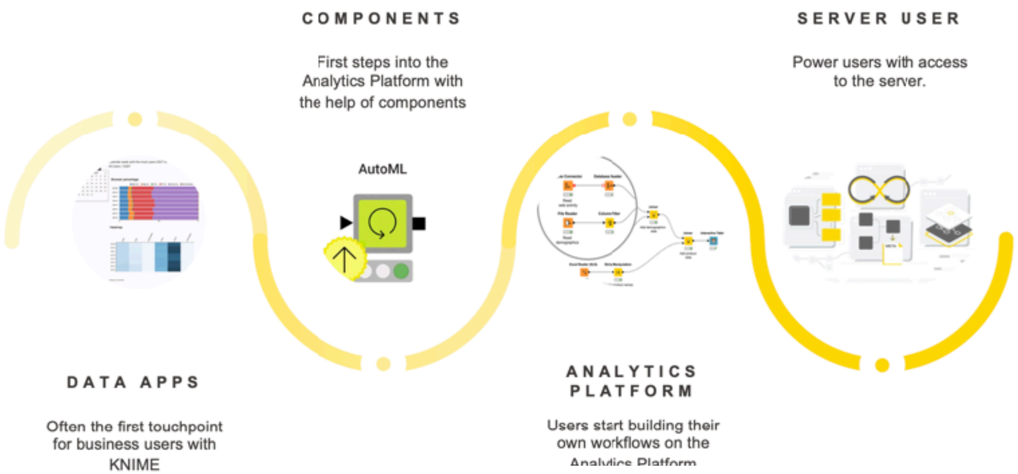


Try to get things implemented

Transfer responsibility

give back into the structures

- The Upskilling Journey



This isn't a sprint, it's a marathon

Building a Data-Literate Culture

Leadership Role
The leadership of an SME plays a pivotal role in fostering a data-literate culture by promoting the value of data-driven decision-making and investing in data literacy initiatives.

Training and Education
Providing comprehensive training programs and educational resources to employees to enhance their data literacy skills is essential for creating a data-informed workforce.

Integration with Business Goals
Aligning data literacy efforts with the strategic objectives of the SME ensures that data is leveraged effectively to drive business growth and innovation.

Thank You

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Landwirtschaft leben.

Contact: ulrich.wagner@wimex-group.com