



Biomassets

VALUABLE ASSETS FROM BIOMASS

ETIP Bioenergy
12th Stakeholder Plenary Meeting
Brussels – March 12th, 2025

Challenge

150 mio. t per year wasted biomass on EU fields – equals 600 TWh heat energy



Why:

Farmers sell their residues mostly not as a product, but like residues – with less respect to biomass users' needs for heat generation.



Current Situation:

Biomass users don't invest and request more biomass, regarding uneven biomass residues. Biomass-energy scaleup is blocked.



Our Goal:

We transform farmers residues to easier usable, valuable PRODUCTS with proven qualities for our own and others biomass-energy projects.

Solution – Value Chain Integration

Our services from biomass source to energy

Straw & grass etc. from farms & municipalities

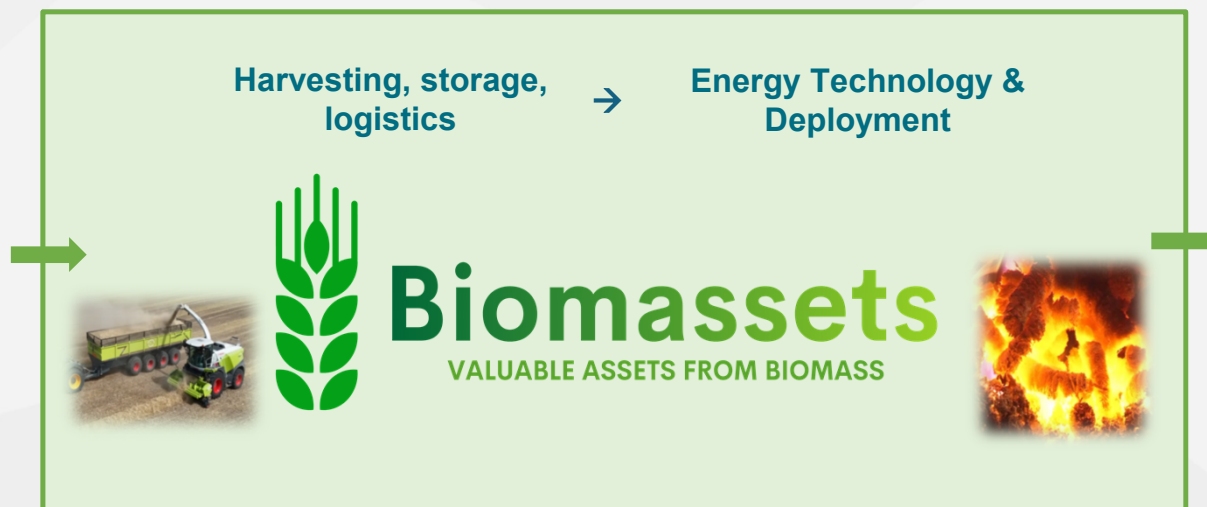


Farmers: always on the lookout for new value-added options

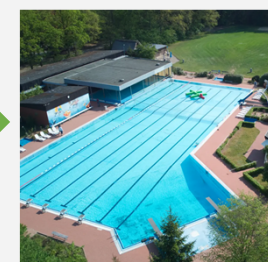
Harvesting, storage, logistics



Energy Technology & Deployment



Electricity, heat, syngas, cooling, steam for our customers



Municipalities & Local heating
Halls
Swimming pools
Accommodations
Schools



Trade & Industry
Buildings,
thermal processes

Ash & nutrients as fertilizer back to the fields

With ESA-BIC funding: quality and availability



Optimal, digitalized biomass value creation

Multi-year satellite and statistical data for the evaluation, e.g. of biomass quantities and types in a defined radius



The lighter, the lower the quality, derived from phytosanitary indices



High predictability, availability & qualities are given

Straw transformation (challenging biomass)



From residue to a solution for energy

Harvesting with dedusting | Flexible, decentralised storage | Optimized logistics & direct feeding of energy production



Our innovative & unique process based on cooperation with technology providers

Current Portfolio

Value chain integration of agriculture and energy output



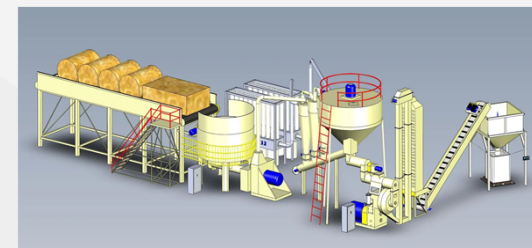
Sun2Fold - Mobile Solar Power Plant

Flexible and self-sufficient up to 134 kWp
Delivered in a 20-foot container
Optional battery



Radviliskis pellet mills and lines

1.2 or 2.4 t/h of straw per line
Good value for money
Optional semi-mobile on steel frame



ReGaWatt Combi Power System

up to 20 MWth or 8 MWeI
Fuel-flexible for wet biomass without pre-drying
Optional electricity, pyrolysis oil or biochar production





Our USP

We optimize the entire biomass value chain by connecting farmers with suppliers to deliver a seamless and sustainable energy solution

1

A data-driven approach maximizes the value extracted from a diversity of biomass resources

2

Advanced energy technologies with a diverse range of outputs (electricity, heat, steam, syngas, cooling, biochar)

3

Cost efficient, year-round supply of seasonal biomass (e.g. grass)

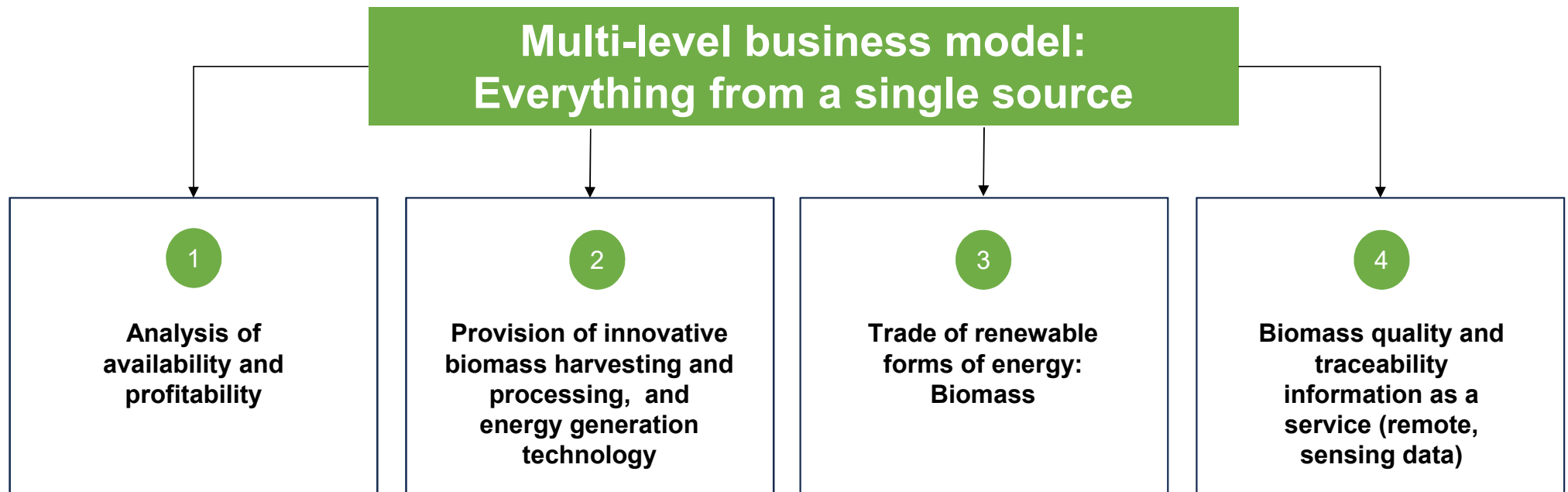
4

Optimization of best technologies through overall process and quality consideration

We accelerate and scale biomass use and value chain efficiency through standardization



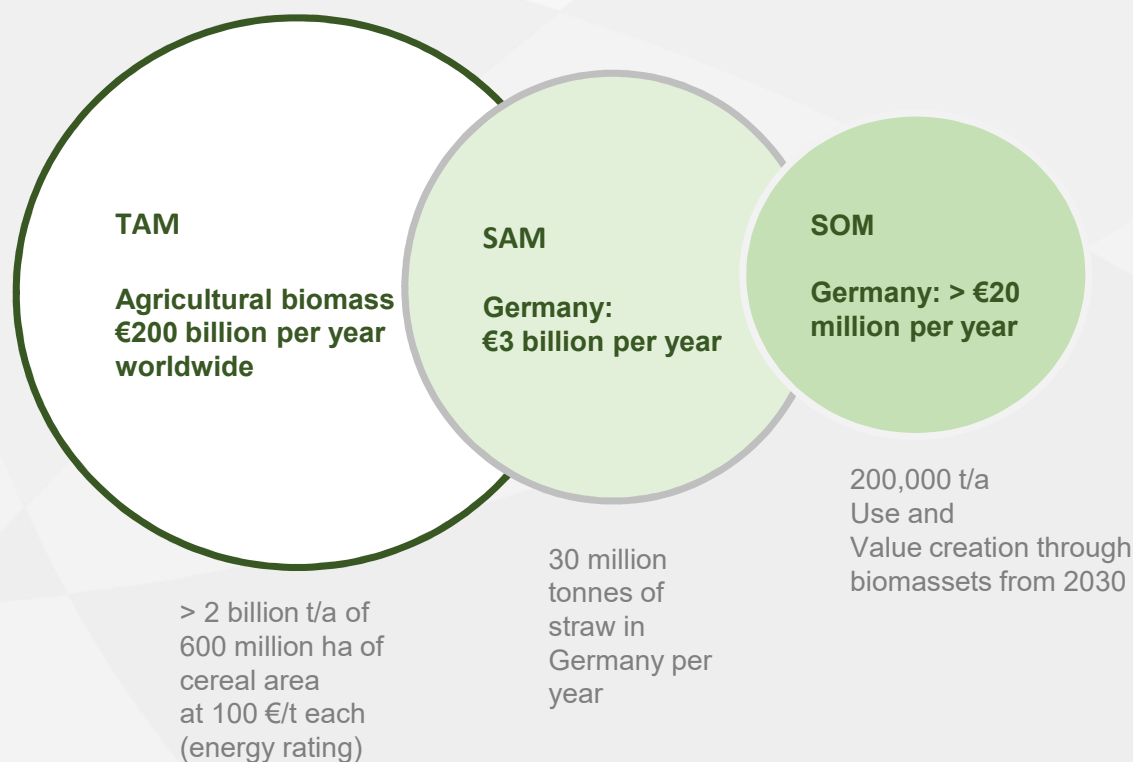
Business Model



Short-term revenues, long-term orientation

Market – Supply & Demand

E.g. straw availability and heat demand



Rapidly growing heat demand

- BEE expects grid heat from biomass to double by 2045



- UFZ Helmholtz/DBFZ assume that straw alone can supply up to 4.5 million households with heat

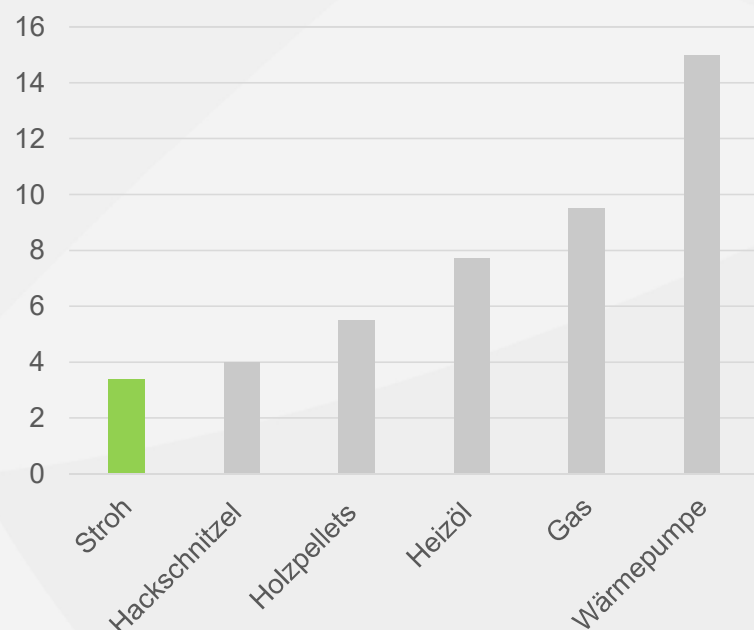


Huge potential on the supplier and demand side

Competitiveness & Competition

Fuel costs of energy sources

ct/kWh Fuel costs



Fuel and fuel costs delivered at the plant	Properties
Heat pump > 15 ct/kWh	Powered by electricity
Gas 9,5 ct/kWh	Fossil
Fuel oil 7,7 ct/kWh	Fossil
Wood pellets 5 - 6 ct/kWh	Long-term renewable
Holzackschnitzel 3,5 - 4,5 ct/kwh	Long-term renewable
Straw 3 - 4 ct/kWh; Grass 1,5 ct/kWh	Renewable annually

Straw & Grass: best energy sources (availability, economic and environmental efficiency)

Financial Planning & Implementation Steps



Our Planned Growth & Roadmap

Nov 2024
Energy Decentral, Messe
Hannover
Vertriebsstart
Anlagentechnik

Apr. 2025
Tests & Start
Analysis & Sales Tool

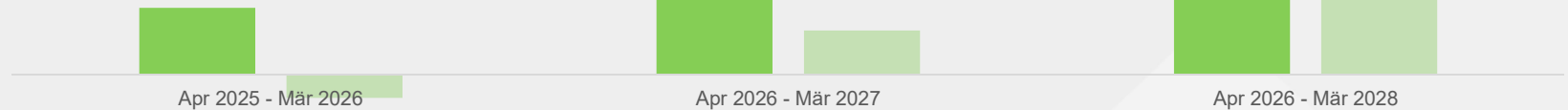
Q2 2025
Sales launch
Feasibility & Analyses

Q3 2025
Harvest & Quality
Parameter Validation

Q2 2026
First project
performance

Q3 2026
Monitoring
Operation

2027
Scale up



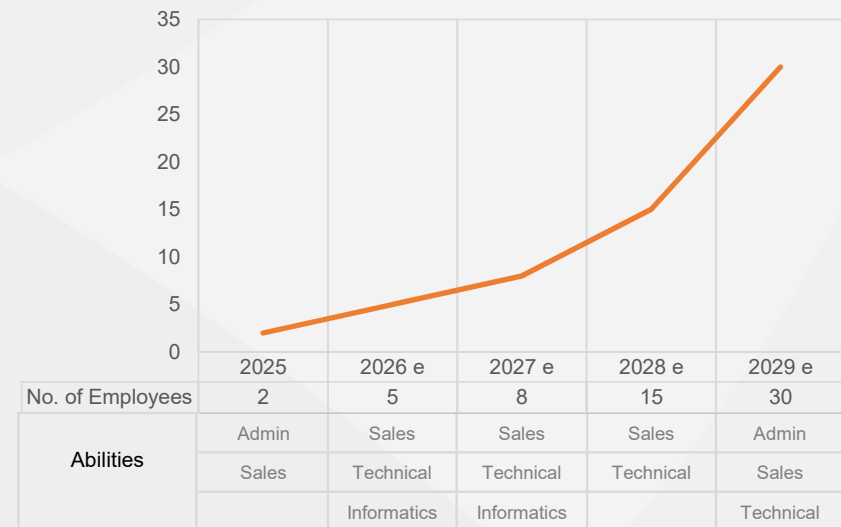
Our Needs & Team Planning

For Sales & Analytics Tool Development, Marketing, Data Processing, Sales

Startup-BW Pre-Seed

- ✓ 40.000 € Co-Invest
- ✓ + 160.000 € from L-Bank
- ✓ As a subordinated loan with a convertible option
- ✓ We offer interest and share option
- ✓ www.biomassets.com

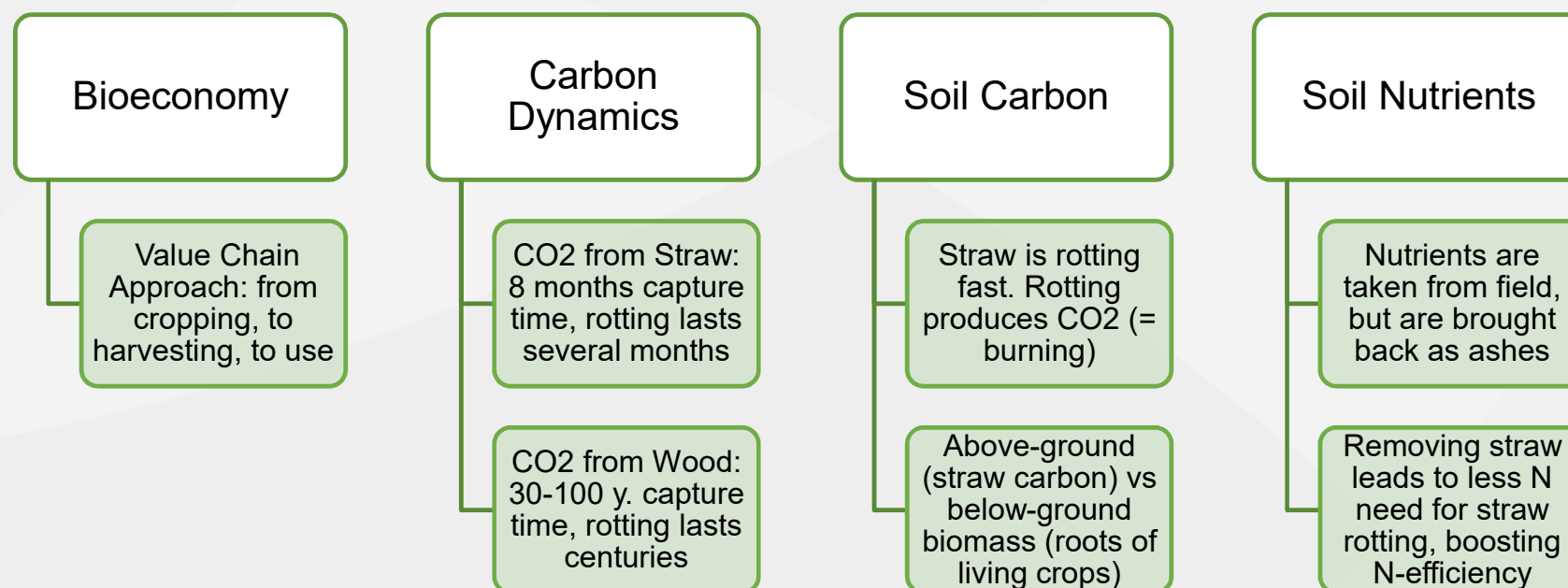
Growth Plan



We will be happy to show you the financial planning and leave the break-even point behind us!

Focus on Circularity

Relevant Issues of our Approach



Economics of Ag-Residue Qualities and Quantities

Matter not just for Energy!



Fiber qualities and
chemical composition of
residues matter
for bioeconomy



Optimization starts on
the field (as required
from processors) – the
elimination of uneven
qualities is essential and
reduces costs



Feed and bedding
material quality
improvement leads to
**healthier animals and
higher resource
efficiency**

In the Pipeline

Intelligent Grain Harvesting: Projects and Patents

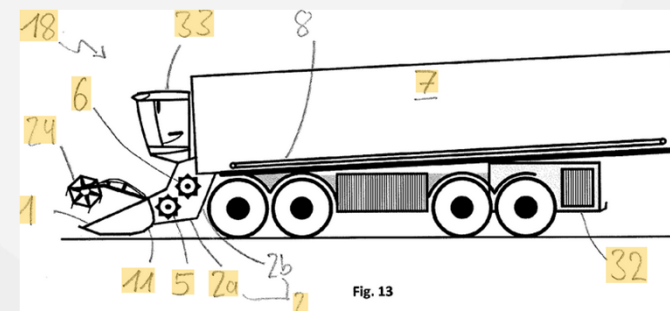
I-Geek

Harvesting specific needed qualities: straw fibers, fine straw, chaff or dust for higher value per hectare

Combination of harvesting and intercrop-seeding for soil health, weeds elimination, less need of tillage and chemicals

Harvesting higher Product-Output per area, intercrop seeding for less needed inputs lead to higher margin for farmers and lower prices for processors

Patents



For harvesting main crops like wheat and residues like chaff and straw.

Electrified fraction separation on defined parameters for high residue yield.

Partnerships, Supporters, Successes

Our Network

Junge Innovatoren bis 7/2024



ESA BIC Förderung seit 7/2024



BUSINESS
INCUBATION
CENTRE

Baden-
Württemberg

Technology Partners



RADVILISKIS
MACHINE
FACTORY



SUN2FOLD



Accelerators, start-up support, consulting



RESEARCH PARTNERSHIPS



STARTUP PARTNERSHIPS



AGRICULTURAL SOFTWARE COMPANIES



VERBÄNDE



Team & Contact



We look forward to hearing from you



Dr. Jörg Ortmaier – Founder and CEO
Technologie, Sales

Management methods, economics of new
harvesting methods for residues such as straw,
agriculture and agribusiness, biomass processing

Dr. Daniela Horna – Founder and CEO
Marketing, Finances

International Management, Sustainability
Management, Transformation of Orchards into a
Source of Raw Materials



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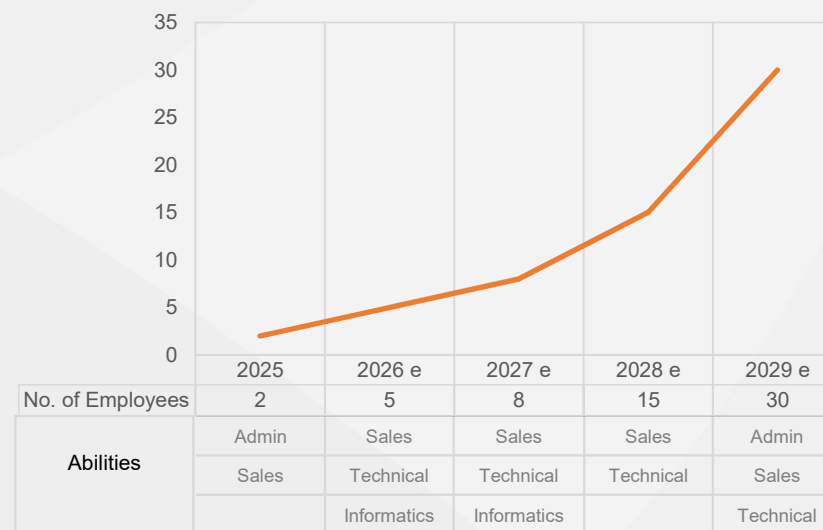
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