

THE MISSING MANUAL FOR SCALING CLIMATE TECH

2024 Edition



THE MISSING MANUAL

FOR SCALING CLIMATE TECH



Introducing The Climate brick

The missing manual for anyone in European climate tech looking to understand the journey to scale and its resulting impact

THERE IS A GAP BETWEEN THE NEED FOR SCALING CLIMATE TECH AND THE AVAILABLE FRAMEWORKS TO UNLOCK A GLOBAL AT-SCALE TECHNOLOGY TRANSFORMATION ~270tn EUR investment opportunity in green businesses before 2050

Climate technologies have the **potential to abate 90%** of 2050 baseline man-made emissions

However, the climate tech journey and the associated **capital allocation process today is messy and inefficien**t which is why a framework for climate tech fundraising is needed

THE CLIMATE BRICK ESTABLISHES A
FRAMEWORK TO DE-MYSTIFY CLIMATE
TECH SCALING

We analyzed data from 3,000+ climate tech ventures and interviewed ~100 founders, investors, policy-makers, and industry experts to **create the first seven bricks** - representing seven different tech scaling journeys

60+ COMPANIES HAVE UNITED TO CREATE THE SEVEN BRICKS

Participants in co-developing The Climate Bricks









Insempra[®]































































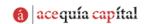






























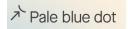














THE CLIMATE BRICKS ARE DESIGNED TO ACCELERATE 7 DISTINCT CLIMATE TECH JOURNEYS

Input



3,000+ companies analyzed (primarily in Europe)



~12,000 data points modelled



~100 interviews with founders, investors, policy-makers, and industry experts conducted



60+ stakeholders represented at cobuilding workshop

Methodology

Identified 3000+ climate tech companies, which were categorized into 7 distinct bricks based on: BM, Risk profile, scaling & GTM journey

Analyzed quantitative data to identify top-quartile performing companies for each brick from 2020 onwards based on e.g.:

- Latest valuation and value trajectory
- Capital efficiency and growth rate
- Sustainability impact

These companies (excl. outliers) make up the data for the quantitative figures on the bricks

Out of these top-quartile ~100 companies were later selected (e.g., based on expert input of future value creation potential), and subject to in-depth qualitative interviews

Bricks covering Pre-Seed to Series D+, debt and/or project financing rounds have been added to the closest round when equity raised

Output

7 bricks identified to represent different scaling journeys



Gigascaling



Green Deployment



Asset-as-a-Service



Product Disruption



New Technology



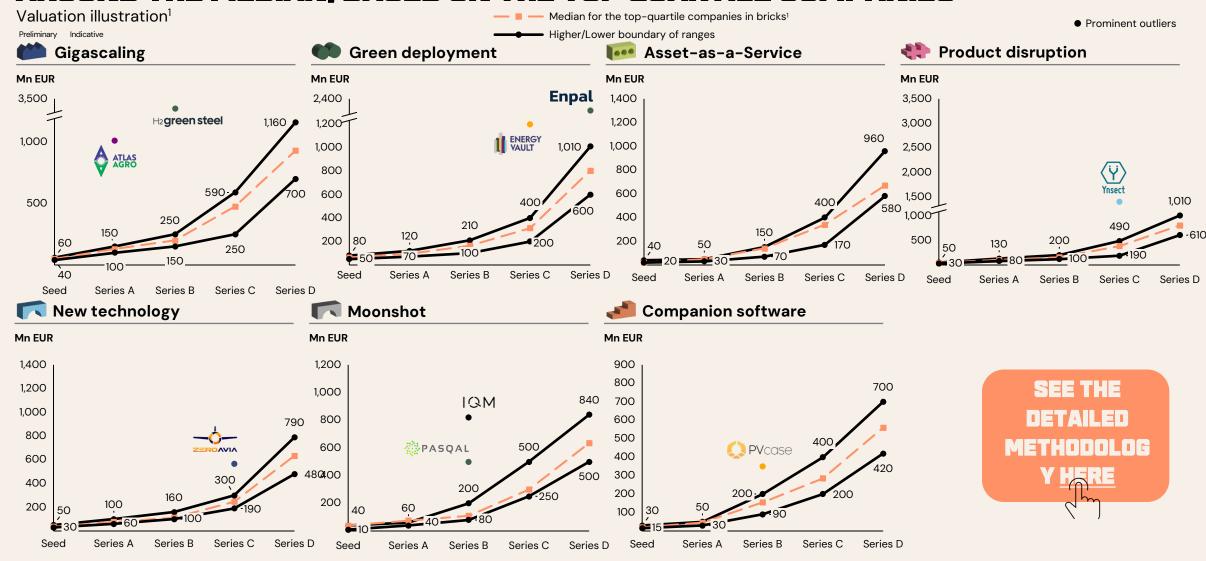
Moonshot



Companion Software

To be updated annually...

VALUATION AND ROUND SIZES ARE DETERMINED BY CREATING A RANGE AROUND THE MEDIAN, BASED ON THE TOP QUARTILE COMPANIES



^{1.} Valuation and round-size are based on top-quartile performing companies e.g., in terms of valuation, future value trajectory and sustainable impact. Ranges in the row represent +/- ~25% of the median from this top quartile, hence some data points of top-performing companies excluded as these are >25% from the median. Data only includes rounds after 2020.

Source: Team analysis, Pitchbook, Press search

BRICK VOCABULARY

Abbreviatio

n	Explanation
ARR	Annual recurring revenue
Beta	Early version of a program or application for early testing with customers
BMS	Building management system
CAC	Customer acquisition cost
CAPEX	Capital expenditure
ccus/ccs	Carbon capture, utilization and storage
Churn	Percentage of accounts that cancel or do not renew their subscription
DtV	Design-to-Value
EPC	Company delivering a complete package of resources to complete project
EV	Electrical vehicle
FEED	Front-End Engineering Design
FID	Final investment decision
FOAK	First of a kind
GM	Gross margin

Abbreviatio

n	Explanation
GTM	Go-to-market
LOI	Letter of intent
LTV	Lifetime value
Moat	Products or services that protect a company from incursions by competitors
MOU	Memorandum of understanding
MVP	Minimum viable product
NRR	Net revenue retention
OEMs	Original equipment manufacturers
PMF	Product-market fit
RFQ	Request for quote
SaaS	Software-as-a-service
SPVs	Special purpose vehicles
sw	Software
Top-quartile	The top-quartile is the upper 25% of companies in terms of performance
TRL	Technology readiness level ² (1-9)

^{1.} TRL level definition: 1 - Basic research; 2 - Applied research; 3 - Critical function or POC established; 4 - Lab testing/validation of alpha prototype component/process; 5 - Laboratory testing of integrated/semi-integrated system; 6 Prototype system verified; 7 - Integrated pilot system demonstrated; 8 - System incorporated in commercial design; 9 - System proven and ready for full commercial deployment

7 BRICKS TO ACCELERATE CLIMATE TECH, EACH WITH THEIR UNIQUE CHARACTERISTICS

Clima	ite Brick	Description	Example sectors	Example companies
	Gigascaling	Building CAPEX-intensive large- scale plants for green production	 Green steel Battery manufacturing Green fuels and large-scale H2 dev. 	northvolt ATLAS AGRO GFREYR
	Green deployment	Operating, deploying, or owning green assets	SolarWindBattery park and charging infrastructure	2 zolar [AIRA] Enpal.
000	Asset-as- a-Service	Providing green assets-as-a- service	MicromobilityElectrical Vehicle-as-a-Service	einride ONE MOTO VOI.
4	Product disruption	Creating green products by disrupting design and/ or process	 Transport vehicles, including e-aircraft, equipment, gadgets 	♥ VOLOCOPTER ON OVAFEED YNSECT
	New technology	Developing disruptive green technology	 CCS/CCUS New materials (for e.g., food, chemicals, cosmetics, agriculture or healthcare) 	# climeworks Formo
	Moonshot	Establishing highly novel, game- changing science	FusionQuantum computing	∧ MarvelFusion
	Companion software	Enabling hardware through software	 Utilization optimization and resource usage reduction software BMS and Grid management 	tado° MONTA TWAICE \$\rightarrow\$ tibbe

^{1.} Other software solutions like marketplaces or plug-and-play SaaS are not in scope as existing research already covers this (e.g., Point Nine for SaaS Napkin, Balderton Capital for B2B sales)



GIGASCALING

This brick is for companies ...

Building CAPEX-intensive, large-scale plants for established green production methods, such as green steel, batteries, and green fuels



- A founder: Develop and execute a clear roadmap to achieve cost competitiveness compared to peers. Prioritize execution build a FOAK plant and scale rapidly. Ensure take-or-pay commitment offtakes to unlock non-dilutive financing.
- An investor: Prioritize investments based on large-scale off-takes and proven CAPEX optimization to ensure high upfront investment repayment. Support founders in the early stages by, for example, introducing them to potential large-scale customers, helping them identify reliable supply chain partners, or assisting in obtaining site approvals.
- A policymaker: Pre-approve regulatory land requirements for sites to facilitate rapid scaling



GIGASCALING

Preliminary Indicative

Building CAPEX-intensive large-scale plants for green production

CRITICAL UNLOCKS

- **1** Develop and execute on clear roadmap to cost competitiveness incl. proven green
- This is an execution game build FOAK plant and scale rapidly
- **(III)** Ensure committed take-or-pay offtakes to unlock non-dilutive capital and equity.

EUR		PRE-SEED	SEED	SERIES A	SERIES B	SERIES C	SERIES D+5
	n perspective. Companies founded aunds up to Series x 2020-202x,. To	Time to take off: founding team and idea based on large-scale TAM	Initial LOIs and execution roadmap in place	Continue secure LOIs while having plant feasibility and plant manager in place	Convert LOIs to off-takes Focus on sourcing and permits for FOAK	"Majority of planned capacity covered in offtakes	Production starts: FOAK ready and cost leadership demonstrated
FINANCING (INDICATORS)	Total raised ^{1,2} Median Valuation ¹ Post money		8-15m 40-60m	25-40m 100-150m	30-50m 150-250m	60-120m 250-590m	145-250m ⁴ 700-1,2000m+ ⁴
	Capital stack Indicative % Debt		10-30% 70-90%	<10% 10-20% 70-90%	0–20% 25–50% 0–10% 35–50%	15-25% 30-50% 0-10% 30-40%	20-30% 30-50% 0-10% 25-35%
	Project financing Non-dilutive grants Equity	Equity funding (angel investors) Alternative financing methodology if corporat	and grants secured. Debt often raised betwee	n customers/suppliers). Government financing en equity rounds	Project financing to de-risk balance sheet in a Equity remains key source of funding. Debt of		Raise debt as profitability picks up. Equity still key source of funding
COMMERCIAL	Revenue ³ Indicative range Off-take ³ Indicative % of annual capacity for FOAK plant		Pre-revenue Pre-offtake	Pre-revenue 0-30%	Pre-revenue 40-80+%	10m+ 60-100%	200m+ ⁴
	GTM	Interest for potential future off-takers demonstrated	Initial LOIs from some target customers/off- takers in place (no binding commitment with regards to volume or pricing)	Order book with LOIs (contractual stability targeting >5 years period) starting to convert to term sheets	Take or pay committed off takes secured for 40-80+% of plant	60-100% of planned capacity for first plant is covered through binding take-or-pay agreements	First at scale revenues with delivery on take-or pay agreements
PRODUCT AND OFFERING	Offering, app, impact	Value proposition for customers identified, including aspired sustainability value add articulated (e.g., CO2 abatement)	Demand potential defined over time, incl. potential lead customers. Sustainability value add detailed (e.g., LCA analysis) with proven green as critical unlock	Process to measure Sustainability value add (vs. alternatives) established (e.g., CO ² abatement)	Robust business model in place (e.g., PMF, off-takes committed)- including learnings from customer feedback.		Sustainability value add (vs. alternatives) measured and proven
	Cost performance	First view of cost competitiveness vs. alternatives available	Cost competitiveness demonstrated (i.e., cost advantages such as better sourcing alternatives, or factory cost)	Contractually protect floor in price mechanis point demonstrated and progressed in cost- margin to support debt coverage ratios (as re	plus negotiations for guaranteed minimum	Roadmap to cost parity or leadership identified. Show traction in cost-out strategy and renegotiation with suppliers	Cost/out ability (e.g., DtV, clean sheet) to reach cost leadership demonstrated. CAPEX reduction plant by plant
			Develop and execute on clear roadmap to cos		,	tandad aparational anvironment for further too	ing
VALUE CHAIN		Supply conversations initiated	LOIs with scalable and reliable partners in place	Supply for first wave of pilot deliveries guaranteed	Sourcing for FOAK plant secured	Long-term contracts with high-quality suppliers secured for at-scale production	Feedstock sourcing advantages demonstrated through procurement scale and long-term partnerships
ECOSYSTEM		Policy dialog and regulatory support for site(s) initiated. Define key stakeholders (e.g. policy makers	Infrastructure needs identified along with infra	astructure and permitting plans	Infrastructure development. Necessary permits assured		
EXECUTION	Production	Potential sites identified	Site location decided. Ambitious production plan in place	Plant feasibility (e.g., RFQ) confirmed, EPC contracting strategy in place	FEED with first estimate of CAPEX needs and suppliers completed. Land agreement in place	Plant FID (CAPEX set and secured) and EPC contracts in place, incentivizing attractive NPV	Completed construction of FOAK plant with plan for additional sites. Partnerships with EPCs secured and transfer
			This is an execution game – build FOAK and so	cale rapidly			
	Talent	potential starting points: Start-up: CEO / COO and core founding team Spin-off: Experienced project team (e.g., industry, tech, commercial)	Experienced CEO appointed (if not already in place)	Plant manager in place, with proven experience COO (if not already in place), CCO, CTO, CFO with project financing experience, and supply chain manager are appointed	ce in building plants at scale Experienced policy person	Project and technical organization assigned	THE





GREEN DEPLOYMENT

This brick is for companies ...

Operating, deploying, or owning green assets, such as solar, wind, and battery parks.



- A founder: Set up scalable organization to out-execute peers on operations and commercial traction. This is an execution game ramp up value, sales, and scale rapidly. Develop and execute a clear roadmap to profitable unit economics and outcompete peers
- An investor: Prioritize investments based on early order book traction and rapid sales, while also considering vertical integration and geographical expansion. Support founders in the early stages by assisting them in identifying effective deployment models to achieve a competitive advantage or by connecting them with suitable deployment partners. Also, take into account the financial and risk implications of owning versus leasing assets.
- A policymaker: Engage with companies to comprehend emerging industry needs. This will drive public acceptance and provide long-term, stable, and predictable support. This will ultimately facilitate policy changes and support programs that benefit customers, companies, and investors.



GREEN DEPLOYMENT

Preliminary Indicative

Operating, deploying, or owning green assets

CRITICAL UNLOCKS

Set up scalable organization to out-execute peers on operations and commercial traction

1 This is an execution game - ramp up value, sales, and scale rapidly

Develop and execute a clear roadmap to profitable unit economics and outcompete peers

FUD							
EUR This brick depicts the scali		PRE-SEED	SEED	SERIES A	SERIES B	SERIES C	SERIES D+5
companies from a valuatio	n perspective. Companies founded unds up to Series x 2020-202x To	Time to take off: strong operational founding team in place	Value proposition tested with customers through MVP	Build a scalable organization with Repeatable GTM Playbook in place	Continue scaling while moving to more and more healthy unit economics	Financing gets more elaborate to allow proper scaling, also internationally	Go big: Keep growing internationally with healthy unit economics
FINANCING	Total raised ^{1,2} Median	n/a	10-20m	15-30m	35-60m	50-100m	110-180m+ ⁴
(INDICATORS)	Valuation ¹ Post money	n/a	50-80m	70-120m	100-210m	200-400m	600-1,010m+ ⁴
	Capital stack		5-10%	O-5%	U-20% 10-30%	0-20% 40-50%	U-23%
	Indicative %	100%	90-95%	95-100%	60-80%		50-65%
	Debt Project financing					40-50%	20-40%
	Non-dilutive grants Equity	Equity funding (angel investors, VC)	Structure for future SPV arrangements in pla	ce		Debt and project financing on top of equity, e.g., through SPVs (if owning assets)	
COMMERCIAL	Revenue ³ Indicative range	Pre-revenue	0-3m	5m+	10m+	50m+	150m+
	GTM	Key local end-user segment(s) and target customer determined	Early revenue from first customers, e.g., through one-off contracts testing the service; Model of serving customers and GTM strategy/roadmap built; Strong brand name established	Increased revenue from new and returning customers Product/service segment expansion where synergies exist	Demonstrate revenue traction including recurring revenue streams, through binding contracts The Value, sales, and scale accelerated quickly	Larger revenue traction; International/ geographic expansion in progress	At scale revenue traction with market leading position; Further geographical expansion, for several of the segment offerings (if very different, split into separate SPVs)
PRODUCT AND DFFERING	Offering, app,	First view of cost competitiveness vs. alternatives, aspired sustainability value add articulated (e.g., CO2 abatement)	Value proposition proven with customers	First pilot project with validated value proposition in progress. Process to measure Sustainability value add established	Offerings are broadened and differentiated to adjacencies (e.g., maintenance, parts)	Project finance to monetize the installed base (e.g., SPV) and improved customer lifetime value (LTV)	opening coparate of 10)
	Cost performance	Value proposition with moat identified	Cost competitiveness further detailed e.g., LTV/CAC ratios	LTV/CAC 3:1, path to profitability clearly outlined	Clear roadmap to profitable unit economics, acquisition cost (CAC) improvement delivere		Break-even unit economics achieved and improved operational cost efficiency
TECHNOLOGY		Technology need identified	Feasibility of MVP technology established	Commercial phase: High technology readines	ss in place for core product (TRL 9)		
VALUE CHAIN		Main supplier needs identified	Key supplier and commerce negotiation identified and prioritized, e.g., with distributors	Partnerships with key suppliers for, e.g., access to large hardware volumes secured	Products co-developed with strategic partners to enhance value proposition	In-house production evaluated for further codeployment/servicing or an elaborate portfoli	
ECOSYSTEM		Regulatory landscape identified	Product fit with applicable regulatory landscape validated	Policy dialogues with key governmental bodies, etc. in progress		Policy/government dialogues increased as ne geographies (e.g., to reduce process lead time	
EXECUTION	Operations	Deployment model, including potential partners established	Access to deployment labor secured (outsourced/in-house); Commercial organization established	A scalable organization to out-execute peers on operations are demonstrated LTV/CAC ratio 3:1	Step change in deployment efficiency achieved (e.g., number of installations per day)	Recipe for scaling demonstrated, e.g., rapid decline in delivery cost, unit cost parity	Path to lowest total system cost followed (e.g., fastest deployment)
	Talent	Founder(s) with strong commercial and technical expertise to develop first MVP	CFO, CTO, and experienced industry talent appointed	Access to dedicated and focused deployment/project organization secured	Experienced general managers to handle geographical expansion in place		THE





eliminary Indicati

PV installer accelerating transition to renewable energy from solar

CRITICAL UNLOCKS

Set up scalable organization to out-execute peers on operations and commercial traction

This is an execution game - ramp up value, sales, and scale rapidly

Develop and execute a clear roadmap to profitable unit economics and outcompete peers



EUR		2016 PRE-SEED / SEED	2017 SERIES A	2021 SERIES B	2022 SERIES C	2024 SERIES D+
This brick depicts th since their founding	ne scaling journey for Zolar in 2016.	Team in place with product portfolio coming together	Value proposition flies with customers Revenue start to become significant	Focus on scaling organization, building up brand and ensure a clear roadmap to healthy unit economics	Continue scale e.g., through partners, and expand into new segments (EMS)	Expand financing methods, and drive efficiencies
INANCING NDICATORS)	Total raised ¹	<1m	<5m	20-25m	140m	100m+ ²
	Capital stack % Debt Project financing	100%	100%	80-100% O-20%	20-40% 60-80%	0=240% 40-50% 40-50%
	Non-dilutive grants Equity	Raised equity from family office	Equity VCs (Statkraft + Heartcore + Partech)	Debt an Equity VCs (existing and new investors)	nd project financing on top of equity, e.g., through SPVs (if Equity from VCs (existing & mew investors), plus revolving debt from financing partner	owning assets)
OMMERCIAL	Revenue	Pre-revenue	<10m	10-20m	75-100m	150-200m
	GTM	Mainly digital marketing channels, D2C (online sales via zolar's proprietary online configurator)	Mainly referrals and digital marketing channels, increased capabilities of zolar online configurator + tele-sales	Built up of zolar brand, added external lead providers Differentiated asset light partnership model for installation	Continued acceleration, plus building own-branded channels	Differentiated channels of customer acquisition
RODUCT AND FFERING	Offering and applications	Added batteries	Added EV chargers	Added rent as alternative payment option	Added Energy Management System (EMS)	Adding financing option as alternative payment option (Q1/24)
	Cost performance	Lean operations set up from the start assuring scalability of the platform via 3rd party installers	Around 20% gross margin, clear roadmap to growing margins defined	Clear roadmap to profitable unit economics, compe (CAC) improvement delivered	etitive differentiation, and customer acquisition cost	>30% gross margin, 50% reduction in installm time leading to lower working capital
ECHNOLOGY		Development of consumer facing inhouse tech platform (zolar online configurator)	Development of partner facing inhouse tech platform (zolar project center)	Expand into installation partner product platform & workflow management	Expand into energy management and consumer app & partner app	Improved consumer app & partner in-app functionality (e.g. EMS, pricing, CRM)
ALUE CHAIN		zolar sells, plans, sources & bills directly to customer, Installations predominantly through 3rd party installers	Partnerships with key wholesale hardware suppliers and lead providers, scale	Added direct sourcing from hardware OEMs	Developed warehousing and logistics capabilities to benefit from scale	Continuously evaluating supplier base and partnering on product innovation and driving further value-chain efficiencies
COSYSTEM		Regulatory landscape identified	Product fit with applicable regulatory landscape validated	Policy dialogues with key governmental bodies, etc. in progress	Policy/government dialogues increased as needed t times & approval delay barriers)	o support rapid scaling (e.g., to reduce process lea
KECUTION	Production and organisation	Tech and product teams established	Sales, commercial and operational teams	A scalable organization to out-execute peers on operations are demonstrated – access to dedicated and focused deployment/project organization secured	lean organization of 350 people set up	lean organization of 400 people set up
	Talent	Strong CEO and founder Alex Melzer and former COO <u>Gregor Loukidis</u> both with +10 years solar experience.	Hired experienced COO (Ben Rauser), growing team with strong operational talent	Hired experienced CFO (Anurag Bansal), CCO (Sarah MMüller), and CTO (Torben Schwellnus)	Hired highly experienced external CEO to drive next stage of growth (Jamie Heywood)	THE CLIMA

zolar.de



ASSET-AS-A-**SERVICE**

This brick is for companies ...

Providing green assets-as-a-service, such as micromobility or Electrical Vehicle-as-a-Service.







- A founder: Demonstrate product-market fit (PMF) including clear customer value addition. Ramp up rapidly and secure customers/offtake agreements early on. Ensure path to profitable unit economics - either through scale or design to cost minimization minimization and with potential for vertical integration
- An investor: Prioritize investments based on proven product-market fit (PMF), sales margins, and plug-and-play for rapid expansion to cover high up-front costs and ensure returns on investment. Support founders across funding stages by, e.g., helping them set a structured plan for asset deployment or understanding how to execute on it in the most effective way. High-value assets indicates a larger balance sheet, which in turn requires a thorough financial due diligence process.
- A policymaker: Facilitate early regulatory support to ensure transparency regarding the risks and opportunities that affect all parties involved.



ASSET-AS-A-SERVICE

Preliminary Indicative

Providing green assets-as-a-service

CRITICAL UNLOCKS

- Demonstrate product-market fit (PMF) including clear customer value addition
- Ensure path to profitable unit economics either through scale or design to cost minimization
- Ramp up rapidly and secure customers/offtake agreements early on

EUR		PRE-SEED	SEED	SERIES A	SERIES B	SERIES C	SERIES D+5
This brick depicts the scal companies from a valuatio 2009 beyond, valuation ro avoid skewed data, outliers	ing formula of top quartile n perspective. Companies founded unds up to Series x 2020-202x,. To s have been excluded.	Get started: strong operational founding team in place	Potential customers show excitement about value proposition of the MVP	Rolling out: Move towards PMF with improving unit economics with repeatable GTM Playbook in place	Maturing: Tech readiness is proven at scale	Proper growth: Get the organization ready to expand, also internationally	Go big: Keep growing internationally with healthy unit economics
FINANCING (INDICATORS)	Total raised ^{1,2} Median Valuation ¹ Post money		4-10m 20-40m	12-20m 30-50m	30-45m 70-150m	40-70m 170-400m	140-230m+ ⁴ 580-960m+ ⁴
	Capital stack Indicative %		0-10% 90-100%	0-10% 90-100%	0-5% 80-100%	10-50% 0-20% 40-80%	20-50% 10-20% 30-70%
	Debt Project financing Non-dilutive grants Equity	Equity funding (angel investors, VC)		——	Equity funding (e.g., VC) and potentially debt (e.g., asset-backed debt facility for SPV)	Equity and debt funding (e.g., asset-backed Own cash funding (if profitable)	
COMMERCIAL	Revenue ³ Indicative range	Pre-revenue	Pre-revenue	5m+	20m+	40m+	70m+
	Off-take ³ Indicative % of annual capacity for FOAK plant	Pre-offtake	Pre-offtake	0-20%	0-50%	50%+	50%+
	GTM	Large emerging market opportunity identified; Brand building to gain customer traction initiated	Business model fit for future geo expansion established; First deployment prepared; Key customer segments identified	Fast scaling accomplished – sales and service execution established	Revenue growth shown as customer demand builds and capacity scales Geographical expansion opportunity identified (or in current large market); Customers/offtake agreements secured	Geographical expansion in progress; Profitable Customer retention and ARPU increased	e growth ability demonstrated;
PRODUCT AND OFFERING	Offering, app, impact	Value proposition identified, with a plan to reach competitive advantage, aspired sustainability value add articulated (e.g., CO ² abatement)	MVP with a clear customer value add and offering in place (e.g., as-a-Service), sustainability value add detailed	PMF demonstrated (high usage, low churn) and scalability (multiple geos & segments). Process to measure Sustainability value add proven (e.g., via LCA)	Offerings/business models, and product suit	e expanded to include diversification in differe	nt segments
	Cost performance	Main cost drivers and high-level view of unit economics provided	Cost drivers further refined, and unit economics detailed	Path to profitable unit economics ensured – either through scale or design to cost minimization,	Operations, scale, and unit economics optimized to achieve operational profitability	CAPEX and costs optimized; Partnerships scaled as needed	Profitability/cash flow neutrality achieved
TECHNOLOGY		Technology need to solve real customer problem identified	Low technology risk demonstrated; Technical moat (depending on tech novelty) established	Development plan designed to cater for geographical/segmental technological needs; KPIs for continuous improvements in place	Analytics used for operations and product improvements	A scalable and efficient technology demonstr. Standard components utilized where applicab	ated (including management of product usage); le to simplify supply chain
			High technological readiness (TRL 7-9) – ap mobility)	plicable for companies with well- established tec	chnology (e.g., micro	High technological readiness (TRL 7-9) – appl (e.g., autonomous drones/fleets)	icable for companies with novel technology
VALUE CHAIN		Clear view on requirements established (own or with partners)	Supply (including required innovation) and distribution needs identified; RFQs for sourcing submitted	Core supply chain locked-in; Partners onboarded	Partners and integrations secured as needed	d to scale	→
ECOSYSTEM		Important stakeholders and player in the ecosystem identified	Pathway to regulatory support and policy needs established	Work/discussions integrated to de-risk regulations in business as usual	Regulatory changes in various regions are cle feedback on new legislation	osely monitored; Collaborations with local authors	prities have been established to provide
EXECUTION	Operations			Strong operational organization established	Strong development and operations talent o	nboarded to optimize offering and operations	
	Talent	Founder(s) with strong commercial and technological expertise to develop first MVP	CTO, COO and CCO appointed		Strong regional expansion talent recruited (e.g., country managers)		THE





PRODUCT DISRUPTION

This brick is for companies ...

Creating and assembling green products such as e-aircraft, equipment, and gadget transport vehicles.







- A founder: Show market existence early on and prove technological readiness (e.g., through prototyping/demo). Establish IP moats through, e.g., patents and process design. Form partnerships and secure a high-quality, reliable supply chain with potential for vertical integration.
- An investor: Distribute investments based on large proven market opportunity, roadmap to profitability with good cash management, and proven technological viability for long-term value. Support founders in early stages by, e.g., connecting them with reliable partners for test case rollout and manufacturing or guiding them in identifying the most sensible path to achieve technology readiness.
- A policymaker: Collaborate closely with companies to comprehend emerging industry requirements and assist with rapid scaling and infrastructure needs.



PRODUCT DISRUPTION

Creating and assembling green products

CRITICAL UNLOCKS

1 Show market existence early on and prove technological readiness (e.g., through prototyping)

1 Establish IP moats through, e.g., patents and process design

■ Establish partnerships, secure high-quality and reliable supply chain

EUR		PRE-SEED	SEED	SERIES A	SERIES B	SERIES C	SERIES D+ ⁵
companies from a valuation	ling formula of top quartile on perspective. Companies founded ounds up to Series x 2020-202x,. To s have been excluded.	Get started: team in place that identified an exciting market	Setting up: Create an IP moat and explore ways of production	Establish partnerships, secure high-quality and reliable supply chain	Prove technological readiness and secure off-takes	Explore international markets and additional financing options for production	Scale revenue and win markets internationally
FINANCING (INDICATORS)	Total raised ^{1,2} Median Valuation ¹ Post money		7-10m 30-50m	15-25m 80-130m	25-40m 100-200m	50-85m 190-490m	180-295m+ ⁴ 610-1,010m+ ⁴
	Capital stack Indicative %		10-30% 70-90%	0-20% 80-100%	0-5% 75-95%	9-10% -20% 70-80%	10-30% 10-20% 60-70%
	Debt Project financing Non-dilutive grants Equity	Equity funding (angel investors, VC); If appli	cable, raise grants		Pathways to alternative financing in addition to equity identified, incl. project financing	Debt funding and EU guarantee loans explor ongoing R&D); Equity still main source of fur	ed; Project financing (depending on extent of ding
COMMERCIAL	Revenue ³ Indicative range Off-take ³ Indicative range		Pre-revenue	Pre-revenue	10m+ 0-20+%	30m+ 20%+	50m+ 40%+
	GTM	Proven market existence and customer den	nand identified	Customers and supplier indication (e.g., LOIs) demonstrated; First customer relationships in place	First revenue through first- customer contracts. Order book/offtakes locked-in; GTM strategy/roadmap established for scaling and geographical expansion	Revenue increased through offtakes/binding contracts. Order book executed on	Revenue at scale
PRODUCT AND	Offering, app, impact	Value proposition for customers defined, including sustainability value addition	Product premium in sustainable substitution anchored with limited functional trade-off. Sustainability value add detailed	Proven product and competitiveness, clear moat/advantage vs. peers (including price, quality, and cost). Process to measure Sustainability value add established	Flexible/innovative offerings model utilized (e.g., as-a-Service).	"Right-to-win" established, high product functincumbents and large-scale competitors	ionality reached with ability to outcompete
OFFERING	Cost performance		Cost calculations made of the technology vs. conventional solutions and incumbents	Theoretical minimum cost calculations and rocconventional solutions and incumbents	admap to profitability conducted - to win vs.	Cost-out in progress (e.g., renegotiation with suppliers)	Profitability/cash flow neutrality achieved
TECHNOLOGY		First prototype built	II) IP moats of the technology established through	gh, e.g., patents and process design	Proven technological readiness and MVP through prototyping/demo (TRL 7)	Commercial phase: First series launched with clear take on R&D path	Commercial phase: R&D to support refined value proposition evolved
VALUE CHAIN		Supply and R&D partnership conversations in progress	Suppliers and partnerships evaluated; First key suppliers locked-in	Establish partnerships, secure high- quality and reliable supply chain	Supplier/manufacturing partners utilized for at-scale sales	Supplier partnerships for feedstock sourcing a	dvantage (1-2y of volume) secured
ECOSYSTEM		Pathway to regulatory support and policy needs identified	Policy dialogue to get regulatory approvals/support in progress	Infrastructure plan established for enablement	Infrastructure development; Government and state approvals for licensing needs ensured	First at-scale plant in progress, including first deliveries; Additional sites planned	Learnings institutionalized and blueprint replicated to build additional sites at superior cost/time
EXECUTION	Production	Idea for production and assembly model	In-house or outsourcing decision for production and assembly (considering, e.g., production risk, cost, time-to-market,	In-house: Agreement reached and pilot facility, FEED/RFQs and land for first at-scale plant are in progress	Pilot facility finalized and running; FID on first at-scale plant in place	Scale production and assembly first at- scale plant	
			quality trade-offs) - mixed approach can be utilized - initially in-housing production and	Outsource: RFQs submitted	Production outsourced	Strategy for scaling outsourcing to match den	nand/pipeline in place
			moving to outsourcing or v.v.	Ambitious commercial pipeline and innovation plans established, irrespectively of selected		oath (in-house or outsourcing)	
	Talent	Founder(s) with strong technological/ scientific expertise to develop first MVP	CTO, COO and CCO appointed	CCO and CPO appointed		Business and R&D directors recruited with industry expertise/connections	THE





NEW TECHNOLOGY

This brick is for companies ...

Developing innovative technologies that revolutionize industries, such as carbon capture and new materials (e.g., food, cosmetics, agriculture or healthcare).









- A founder: Establish IP moats through, e.g., patents and process design. Execute a clear roadmap to cost competitiveness vs. conventional technology and incumbents. Prove high technology readiness and demand for new technology early on and showcasing economical superiority of technology.
- An investor: Consider proven GTM strategy with commercial traction through offtakes and technical roadmap to cost competitiveness when investing. Support founders in early stages by, e.g., helping them find relevant grants to apply for or by guiding them in identifying the most sensible path to achieve technology readiness.
- A policymaker: Early public funding is critical for enablement key for European countries to learn from the US.



NEW TECHNOLOGY

Developing disruptive green technology

CRITICAL UNLOCKS

Establish IP moats through, e.g., patents and process design

(I) Execute on clear roadmap to cost competitiveness vs. conventional technology and incumbents

Prove high technology readiness and demand for new technology early on

EUR		PRE-SEED	SEED	SERIES A	SERIES B	SERIES C	SERIES D+5
	n perspective. Companies founded aunds up to Series x 2020-202x,. To	Kick things off: Strong technical team in place and clear vision defined	Doing it better: Roadmap for IP moat defined	Doing it cheaper: Clear roadmap to achieve cost competitiveness through developed technology	Secure off-takes and prove tech readiness	Tap into first revenues with a strong orderbook	Commercial roll-out: Get your product out there
FINANCING (INDICATORS)	Total raised ^{1,2} Median Valuation ¹ Post money		8-15m 40-60m	15-20m 60-100m	30-55m 100-160m	50-90m 190-300m	90-155m+ ⁴ 480-790m+ ⁴
	Capital stack		25-50%	15-25%	5–10%	10-20% 0-10%	10-20% 10-20%
	Indicative % Debt		50-75%	75-85%	90-95%	70-90%	60-80%
	Project financing Non-dilutive grants Equity	Equity funding (angel investors, VC); Structured approach applied to secure grants	s and public funding	Equity funding from VCs and strategic investr customers or incumbents	ments in place, e.g., from high-profile	Non-dilutive options, i.e., debt and project fin	ancing for de-risked assets
COMMERCIAL	Revenue ³ Indicative range	Pre-revenue	Pre-revenue	Pre-revenue	Pre-revenue	10m+	70m+
	Off-take ³ Indicative % of annual capacity for Y1 output	Pre-offtake	Pre-offtake	Pre-offtake	0-50%	50-80%	80%+
	GTM	Show evidence of early signs of commercial interest (e.g., customer ask)	Pre-pipeline to prove demand for new technology in progress	LOIs in place and scaled up.	Initial off-takes	First revenue through first customer contracts achieved and off-takes Order book in progress, with substantial share offtake agreements	First revenue through first customer contracts achieved and off-takes e of planned capacity covered by binding
PRODUCT AND OFFERING	Offering, app, impact	Value proposition for customers proven, incl. sustainability value add	Customer use cases defined with regards to value proposition and offering	Key relationships with customers /partners established	Product/offering tested with customers and clear target verticals aligned. Process to measure Sustainability value add established	Roadmap to large-scale commercialization followed	
	Cost performance		View on cost competitiveness vs. conventional tech and incumbents in place	Clear roadmap to cost competitiveness vs. conventional tech and incumbents in place		Cost breakeven/profits achieved by accessing incentives and support schemes	Cost-out ability (e.g., DtV, clean sheet) and competitive price point demonstrated
TECHNOLOGY		Basic principles of the technology outlined	Lab phase: Basic principles demonstrated, and proof of concept achieved (TRL 1-3)	Pilot phase: Technology and product MVP validated and achieved technology demons- tration in relevant environment (TRL 4-6)	Demo phase: Prototype and certify technology demonstrated (TRL 7-8); Pilot tested	Demo/Commercial phase: High technological ready for commercialization (TRL 8-9)	readiness proven, moving towards technology
		0	IP moat established through, e.g., patents and	process design - approvals, proprietary design	n and software, etc., in place		
VALUE CHAIN		Potential suppliers identified	Supplier conversations in progress	Supply for first wave of pilot deliveries secured	Supplier partners for at-scale production locked-in		
ECOSYSTEM		Pathway to regulatory support and policy needs identified	Engaged with identified Infrastructure needs	Infrastructure plan established for enablement	Infrastructure development with identified partners	Policy dialogue for scaling enablement in pro	gress
EXECUTION	Production	oduction In-house or outsourcing (or mixed) decision for production and assembly (considering, e.g., production risk, cost, time-to-market,		In-house: Set site location for pilot and production plan	Pilot plant finalized	Pilot plant production scaled up; FOAK plant FID and guarantees in place	FOAK and ramp up production finalized; Delivery at scale and blueprint replication achieved
			quality trade-offs)	Outsource: Desired output targeted; Producti	ion sources diversified for risk mitigation/cost-	outs; Long-term production volumes locked-in	
	Talent	Founder(s) with strong technological/ scientific skills to develop first MVP	CTO appointed to take novel technology from lab to FOAK	CFO and supply chain manager appointed	CCO appointed to build commercial traction		





MOONSHOT



Launching highly game-changing science fundamental to the way entire sectors work, such as fusion and quantum computing.





- A founder: Secure grants and public funding throughout the project, considering the long time to first revenue. Demonstrate technological readiness, conduct R&D, and establish intellectual property moats, such as patents. Engage key commercial partners and customers, like large governmental or industrial off-takers.
- An investor: Prioritize investments based on proven technology development and indication of commercial traction through, e.g., offtakes. Support founders in early stages by, e.g., helping them find relevant grants to apply for or by providing access to valuable connections and customers.
- A policymaker: Early public funding is critical for enablement (grants and guarantees). Stay close to the founders, understand the potential applications, and drive bold policies to support them.



MOONSHOT

Establishing highly novel, game-changing science

CRITICAL UNLOCKS

Ensure grants and public funding throughout the journey – given long time to first revenue

Prove technological readiness, drive R&D, and establish IP moats (e.g., patents)

Use Lock in key commercial partners and customers (e.g., large governmental)

EUR		PRE-SEED	SEED	SERIES A	SERIES B	SERIES C	SERIES D+5
	n perspective. Companies founded unds up to Series x 2020-202x To	Market identified for a nascent technology, maybe from academia	Leverage grants and public funding while evolving on vision and market opportunity	Work on tech readiness while securing customer interest	Pilot technology while cementing customer interest through LOIs	Demonstrate technology in close collaboration with future customers	Kick off proper commercial operations
FINANCING (INDICATORS)	Total raised ^{1,2} Median Valuation ¹ Post money		6-10m 10-40m	10-20m 40-60m	15-45m 80-200m	45-110m 250-500m	100-170m+ ⁴ 500-840m+ ⁴
	Capital stack Indicative %		0-10% 30-60%	0-10% 20-40%	0-10% 20-40%	0-10% 20-40%	O-10% O-20% 10-30%
	Debt Project financing		40-60%	50-80%	50-80%	50-80%	50-80%
	Non-dilutive grants Equity	Equity funding (angel investors, VC); Structured approach applied to secure grant: Grants and public funding ensured throughou		Pivoted towards more VC equity; Broad set o	f funding ensured, e.g., from high-profile custor	ners such as government or industrial partners	Project financing if possible (often not applicable until later stages/ Series E+)
COMMERCIAL	Revenue ³ Indicative range	Pre-revenue	Pre-revenue	Pre-revenue	Pre-revenue	Pre-revenue	0-1m+
	Off-take ³ Indicative % of annual capacity for Y1 output	Pre-offtake	Pre-offtake	Pre-offtake	Pre-offtake	0-50%	50%+
	GTM	The importance for customers and governments validated by applying research focus	Collaborations identified (e.g., initiate MOUs); Underlying physics of concept demonstrated	Pre-pipeline initiated to prove demand and explore interest from high-profile potential customers/partners	LOIs/MOUs for key partners in place (e.g., government)	Key commercial partners and customers locked-in (e.g., large governmental)	Some instances of first revenue Offtakes for additional use cases achieved
PRODUCT AND OFFERING	Offering, app, impact	Use cases for nascent technology explored to support potential value proposition	Large future market opportunity demonstrated	Use cases identified for specific industries and buyers with clear value proposition		Key relationships with customers/partners secured	Roadmap to large-scale commercialization finalized
	Cost performance				Low theoretical minimum cost proven	Roadmap to profitability and cost-out establ	ished
TECHNOLOGY				Lab phase: Proof of concept achieved, primarily research-based (TRL 1-3)	Pilot phase: Technology and product MVP validated (TRL 4)	Demo phase: Achieved technology demonstration in relevant environment (TRL 5-6)	Prototype demonstrated and progressed towards commercialization (TRL 7+)
	0	TRLs can vary between rounds and companie	es but critical to prove technological readiness a	nd have IP moat established, e.g., patents appr	ovals, proprietary design and software, number	of parts/components	
VALUE CHAIN			Supply/material need identified		Supply plan established and key suppliers achieved for first wave of pilot		Supplier partners secured for ramp-up production
ECOSYSTEM		Strong academic and research ties implemented (e.g., PHD programs)		Pathway to regulatory support and potential government collaboration established	Regulatory support secured; Academic collaboration scaled up (e.g., with regards to facilities and access to lab)	Infrastructure needs identified and plan for enablement conducted	
EXECUTION	Production	Spin-off organized from university – IP rights considered (University vs. spin-off company) and cap table	Production strategy operationalized, e.g., site facilities for concept validation Potential move from university/lab environme	, ,	Production launched; Pilot plant feasibility proven	Pilot production site scaled-up	
	Talent	Founder(s) with strong scientific expertise and visionary leadership ability	Experienced technological talent appointed; E	expert talent emphasized recruiting	Commercial talented appointed		





MARVEL FUSION



Company creating carbon free energy through fusion power plant

EUR		2019 SEED	2022 SERIES A	2022+ SPRIN-D & PPP ¹	2024+ SERIES B+ (NOT HAPPENED YET)
	the scaling journey for ce their founding in 2019.	Seed investment to validate key aspects of fusion concept	Equity round led by Earlybird to drive feasibility studies and BASF collaboration	Broadening scope of feasibility studies to widen addressable market	Scaling up production through proprietary laser facility
FINANCING (INDICATORS)	Total raised	Not public	35m		
Capital stack		4	Not public —	>	To date, MarvelFusion benefits from over 200 Mn USD in private funding and public collaboration projects, including 50 Mn USD for the development of laser infrastructure via SPRIN-D and the public-private- partnership with the Colorado State University, constructing the leading laser-fusion-research facility worth 150 Mn USD
	Non-dijutive grants ramp-up. investment. The strong commercial partnership		Successfully raised 35 Mn EUR equity with Earlybird leading the investment. The strong commercial partnerships that MF had established, substantiate the potential of its technology and enabled the funding round.	Sprin-D is a grant received from sprind.org to create new disruptive technologies from Germany. Non-dilutive contributions for proprietary laser development and infrastructure for demonstration facility	lacer later research admity florithee him out
COMMERCIAL	Revenue	Pre-revenue	Pre-revenue	Pre-revenue	Pre-revenue
	GTM	Established a commercial partnership with the laser company Thales			
PRODUCT AND OFFERING	Offering and applications	Validation of key aspects of the fusion concept, using upgraded laser systems in Germany and Romania through Thales. Initiatives allowed the company to demonstrate fundamental parts of the concept	Feasibility studies with energy-intensive industries to investigate the potential commercial applications of its technology	Feasibility studies with leading airlines, steel producers and chemistry companies	Proprietary laser facility intended to be in construction. The only laser facility designed as a commercial fusion approach
TECHNOLOGY			Technological re-	adiness of TRL 3-4	Intended technological readiness of TRL 5-6
VALUE CHAIN		4	Not public information	→	
ECOSYSTEM		Partnership with Siemens Energy secured to start working on initial fusion power plant designs	Collaboration with BASF to develop nanostructured fuel targets with chemical compounds		Partnerships intended with leading universities to refine nanostructures for fusion applications
EXECUTION	Production and organization	Advancement of technology to bring it closer to commercialization			Ultimately, MF's objective is to construct a laser facility designed for a commercial fusion approach with a scalable laser system, reaching the size of a power-plant prototype by 2032.
	Talent	Moritz von der Linden, <u>Georg Korn, Karl-Georg Schlesinger,</u> Pasha Shabalin were conducting due diligence on multiple fusion companies for a VC, and founded their company due to advancements in the latest laser and nanofabrication technologies	Strengthened team with renowned scientists such as Prof. Siegfried Glenzer and engineers for building the demonstration facility		Additional senior experts in experimental physics and engineering intended to be hired





COMPANION SOFTWARE

This brick is for companies ...

Offering software enabled through hardware, such as software for utilization optimization and BMS/grid management.

tado MONTA TWAICE # tibber

- A founder: Establish early MVP technology feasibility and technology advantage vs. peers. Prove scalable business to minimize costs as share of revenue. Target rapid growth, with fast ARR growth, low churn and growing ACV.
- An investor: Prioritize investments based on proven added customer value, speedy customer acquisition, and early growth focus through ambitious expansion. Support founders across funding stages by, e.g., assisting with market positioning to unlock adjacent markets, differentiation strategies to outcompete competition, or industry experience/networks to unlock rapid scaling.
- A policymaker: Geographical expansion is key drive common policies in Europe to secure level playing field.



COMPANION SOFTWARE

Enabling hardware through software

CRITICAL UNLOCKS

- Establish early MVP and technology advantage vs. peers
- Prove scalable business to minimize costs as share of revenue
- Target rapid growth, with high ARR and low churn

EUR		PRE-SEED	SEED	SERIES A	SERIES B	SERIES C	SERIES D+5
	n perspective. Companies founded unds up to Series x 2020-202x,. To	Customer interest explored via first lines of code	MVP established and first partnerships kicked off	Scalable, sticky product in place	Ready to scale: rapid growth with a maturing commercial organization	Product-market-fit proven internationally	Kick off proper commercial operations
FINANCING (INDICATORS)	Total raised ^{1,2} Median Valuation ¹ Post money		3-6m 15-30m	10-15m 30-50m	20-40m 90-200m	70-120m 200-400m	95-160m+ ⁴ 420-700m+ ⁴
	Capital stack Indicative %		0-20% 80-100%	0-10% 90-100%	0-5%0-5% 90-100%	0-10% 90-100%	0-10% 90-100%
	Debt Project financing Non-dilutive grants Equity	Equity funding (angel investors, VC); Non-dil	utive options (e.g., grants)		Equity funding (e.g., VC, strategic investors)	Equity funding; Some debt financing poss assets Revenue-based financing due to recurring	
COMMERCIAL	Revenue ³ Indicative range	Pre-revenue	Pre-revenue	1m+m	5m+	10m+	75m+
	GTM	Key local end-user segment(s) and target customer determined	GTM strategy/roadmap identified including path to clear ICP; Large TAM proven	First revenue achieved	Rapid growth targeted with high ARR and low churn Geographical expansion targeted; Short sales	increased; SW product portfolio and cross-	Revenue at scale; Adjacent markets unlocked; Size of customer contracts expanded
					cycles and scalable customer acquisition demonstrated, i.e., a flywheel effect		
PRODUCT AND OFFERING	Offering, app, impact	Competitive value proposition identified incl. sustainability value add	Business model defined, such as SaaS	Proven scalable business; Product stickiness demonstrated, i.e., low churn		Offerings customized with proven product- market fit (PMF)	Differentiation increased and proven value proposition through feature development
	Cost performance			LTV/CAC 3:1	Path to profitability clearly outlined	Execute on path to profitability	
TECHNOLOGY		First lines of code, mock-ups/first app tested with customers to validate potential	Pilot phase: MVP established and indication of tech advantage	Demo phase: Prove technology moat; Demonstrate ability to scale sales/ops	Commercial phase: Implement agile feature optimization including pace/approach for customized development for geographies	Commercial phase: Technology advantage fu of competition; New feature adapted to cate Quick iterations and development cycles est	
VALUE CHAIN		Partner conversations initiated for MVP integration	First partnerships secured, e.g., value- added resellers, system integrators. Show capacity for integration	Partner and platform integrations launched; Integration strategy expanded and scaled	Partnerships monetized	Partners and integrations increased as needed	
ECOSYSTEM		Fit with regulatory requirements ensured, e.g	g., data protection, critical infrastructure build-	out			
EXECUTION	Organization			Sales and marketing function established, with focus on lead generation and customer service execution	Organization scaled (product, sales, customer success, etc.). Offices located based on access to experienced/senior talent	Efficient organization in place with large international presence	
	Talent	Founder(s) with strong technological expertise to develop first MVP and GTM	CTO, strong technology and commercial talent appointed	Structured sales and marketing operations			





Smart heating and energy management solution company

CRITICAL UNLOCKS

Establish early MVP and technology advantage vs. peers

Prove scalable business to minimize costs as share of revenue

Target rapid growth, with high ARR and low churn

Preliminary Indicative	Smart neating a	ind energy management solution 2011	n company 2012	2013	2015	2016	2018+
EUR		2011 PRE-SEED	2012 SEED	2013 SERIES A	2015 SERIES B	2016 SERIES C	2018 SERIES D+5
Top quartile comp performance (e.g. outliers	panies in terms of , valuation), excluding	Customer interest explored via first lines of code	MVP established and first partnerships kicked off	Scalable, sticky product in place	Ready to scale: rapid growth with a maturing commercial organization		Kick off proper commercial operations
FINANCING (INDICATORS)	Total raised	<1m	4m	25m	40m	40m	55m
	Capital stack % Debt		100%	100%	50% 50%	100%	100%
	Project financing Non-dilutive grants Equity	Founder's investment & Non-refundable Government grants	Venture Capital Investors		Debt from EIB Eur 20m		Financial growth investors lead by Trill Impact
COMMERCIAL	Revenue	Pre-revenue	Pre-revenue	8m	15m	30m	75m
	GTM		High-level view of GTM strategy view on e.g., ICP and market opportunity developed – however ahead of time, hence focus on early adopters	GTM strategy/roadmap identified including path to clear ideal customer profiles (ICPs); Large TAM (Total Addressable Market) proven	tado" energy management software to reduce energy expenses by 22% on average.	>1m users secured which use tado° on a weekly basis. Rapid growth targeted. with high ARR and low churn	On path to become market leader for total energy management of buildings (connecting customers to overall energ market, EV charging, etc.) - on the Cloud
PRODUCT AND OFFERING	Offering and applications		Product and Proposition very well received an established among early adopter customer segment		Proven scalable business; Product stickiness demonstrated	Offerings customized with proven product-market fit (PMF)	Differentiation increased through expansion of offering in home energy mgmt. using Smart Thermostat with dynamic energy tariffs (acq. aWATTar)
	Cost performan	ce			Good unit economics demonstrated. Path to profitability clearly described	n	Execute on path to profitability in core business with strong expansion of SaaS revenue
TECHNOLOGY		First lines of code, mock-ups/first app tested with customers to validate potential Throughout: Prioritized going into the mark	MVP established and indication of tech advantage et & approaching customers as early as poss	Proven technology moat; Demonstrated ability to scale sales/ops sible; Continued developing the product o		perience enabled through fast time-to-mark	
VALUE CHAIN			Focused on direct Sales	*	Secured strong partnerships to scale sales (e.g., with OEMs and Utilities)		*
ECOSYSTEM		Tado° being the first mover to digitize heating and cooling management. However, the market was not ready yet	Saw competitors as essential (e.g., Nest) a critical to build the new product category/market	is		Positioned company as a European market leader in intelligent climate management.	Delivered o path to become a leading player in energy management for buildings
EXECUTION	Production	Focused on product development and building a strong organization.		Sales and marketing function established, with focus on lead generation and customer service execution	Organization scaled (product, sales, customer success, etc.); Offices located based on access to experienced/senior talent		Efficient organization in place with large international presence
	Talent	Founder <u>Toon Bouten</u> with strong engineer MVP. Emphasized importance to have crea			Strong development and operations talent hired, scalable sales/customer success		THE

