

Investment process in Orion

Aalto University School of Business
19 March 2024

Jari Karlson

Chief Financial Officer





Orion as company



Orion at a glance (2023)





Net sales EUR **1,190** million



Operating profit EUR **275** million



6 Production sites in Finland,

1 in France and

1 in Belgium



Personnel 3,632



R&D investments

127 EUR million



Sales network in Europe and own sales unit in **5** Asia-Pacific countries



1917

Established in

Building well-being



Inspired by our Nordic heritage, we strive to empower people around the world to live their lives to the fullest – today and tomorrow.

Build a customerdriven portfolio:

- Innovative Medicines for Oncology and Pain
- Brand products for Respiratory, Central Nervous System, and Women's Health
- Complementing strong generic portfolio with complex and value-add generics, and consumer health products with value proposition
- Portfolio for companion and livestock animals

Expand to new geographies and strengthen global partnerships:

- Strengthen European market position
- Strengthen and expand APAC presence, including Japan
- Establish presence in USA step by step

Develop growth enablers:

- Competences and Culture
- Safety and Sustainability
- Global commercialisation capabilities
- Data driven execution excellence
- Master End-to-End value chain



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Capital allocation focus





Internal R&D pipeline

Higher



Dividends



Investments to maintain and increase capacity



In-licensing / acquiring commercial assets



In-licensing / acquiring R&D assets



Focused
M&A's to
gain strategic
competencies

Lower

Orion's Sustainability Agenda







6



Patient safety has been a priority for us for a hundred years and it continues to be the cornerstone of our daily operations.

We play a significant role in ensuring reliable supply of medications – even in the wake of a crisis.



Active work for a better environment



We want to be the environmental leaders in our industry.

We continuously raise the bar in climate and environmental responsibility, and we challenge others to follow.

We are strongly heading towards achieving carbon-neutrality in our own operations by 2030.



Care for well-being professionals



We want to take care of Orionees – professionals who put their heart and expertise in everything they do.

Our workplace is inspiring. We want our people to feel well.



Ethics at the core of our business



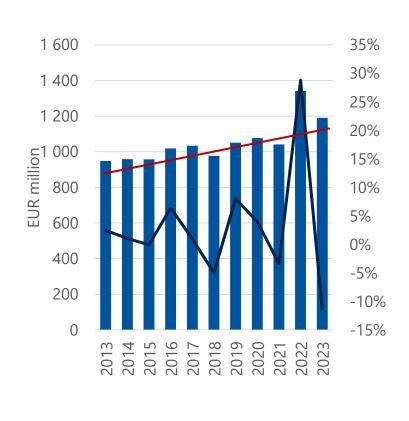
We maintain strict ethical standards and act responsibly in all situations.

Together with our partners we are building a transparent and sustainable business.

Financial development 2013-2023

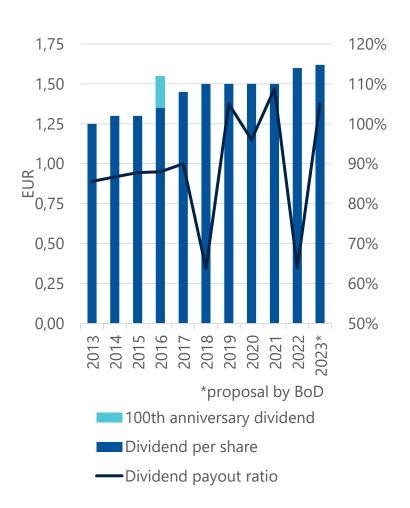


- Solid financial performance despite significant Loss of exclusivities



Net Sales — Growth, %





Development of capital expenditure

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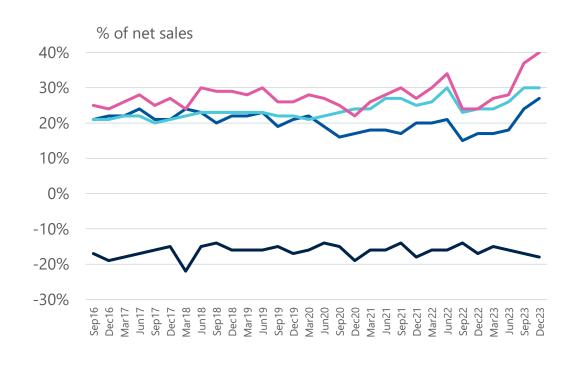


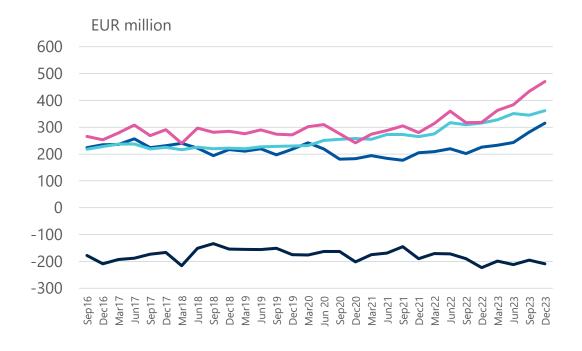


Development of net working capital



- clear increase in 2023





--- Receivables

Inventories

—Short-term non-interest bearing liabilities

-Net Working Capital

---Receivables

—Inventories

—Short-term non-interest bearing liabilities

—Net Working Capital

Key figures



Orion's key figures	2019	2020	2021	2022	2023	Change vs. 2022
Net sales, EUR million(1	1,051	1,078	1,041	1,341	1,190	-11.3%
EBITDA(1	309	337	289	487	326	-33.0%
Operating profit, EUR million(1	253	280	243	440	275	-37.5%
R&D expenses, EUR million	119	123	118	136	127	-4.7%
Capital expenditure, EUR million (2	43	49	85	192	93	-51.6%
Depreciation and amortization, EUR million	56	56	46	47	52	+8.4%
Equity ratio, %	77%	67%	68%	61%	62%	
Gearing, %	-18%	-25%	-15%	-13%	11%	
ROCE (before taxes), %	30%	35%	29%	45%	25%	
Return on equity, %	26%	29%	26%	42%	24%	
Basic earnings per share, EUR (1	1.43	1.56	1.38	2.49	1.54	-37.8%
Interest bearing net debt, EUR million	-139	-186	-108	-119	93	
Dividend per share, EUR	1.50	1.50	1.50*	1.60	1.62(3	+1.3%

¹⁾ Net sales in 2022 includes EUR 228 million milestones income with EUR 208 million positive impact on EBITDA and EBIT and EUR 1.48 positive impact on EPS

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³⁾ Proposal by the Board of Directors

^{2) 2022} capital expensidture includes 82 million acquisition





- General (1)

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- Corporate Governance defines the approval authorities based on the size of the investments
 - In principle all investments require approval at least by a member of the Group management team
- Formal and standardized investment proposal is prepared for approval
 - Preparation and approval processes vary based on the nature of the investments

- Approval stages at Orion
 - Board of directors
 - CEO (supported by management team)
 - Management team members
 - Other (as authorized by management team members)



- General (2)

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- Strategy/Long term planning defines the overall framework
 - Development plans of the business units and resources needed to execute them
 - Balance sheet structure impacts due to the investments
 - Integration of the investments and the business strategies
 - Investment Roadmaps for the areas with largest investments (Global operations/production, Fermion)
- 5-year top level investment plan by function is updated whenever there are major changes identified
 - Gives a high-level view of the investment needs for next years
- Based on the strategy and 5 –year plans CEO typically defines an annual investment cap for those functions that make most of the investments

- Rolling planning cycles include project level estimates for investments to be started and executed during the next 18 months
 - Investment need (€ and resource FTE) and timing are estimated.
 - Investment plans can be updated all the time to the rolling planning system unlike cost plans that are updated on quarterly
 - Not yet detailed and final project plan
 - Final approvals separately by project following the approval guidelines. Being included in rolling forecast does not mean automatic approval.
 - M&A projects are not typically included in the plan but are handled separately



- General (3)

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- Investment classes in this presentation are based on nature of the investments (-> this is not accounting classification)
 - Traditional building and machinery investments
 - Information technology investments
 - Acquisition/in-licensing of new products
 - Large typically patent protected products (seldom, major process/project)
 - Small generic products (large number, often, straight forward process)
 - Development of new pharmaceuticals (booked as cost in P&L, not activated in balance sheet)

- Company acquisitions are unique investment projects
 - Basic process defined
 - Each case is different and typically these are large projects

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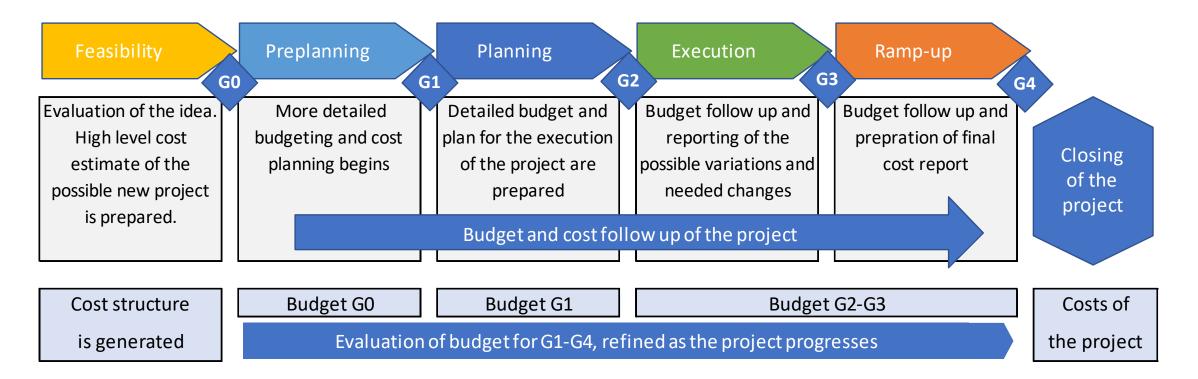
- Buildings and machines (1)
- Majority of these investments are relatively small ones
- As a consequence, the preparation work is typically done within the function and not in company wide cross functional teams
- 80/20 however applies also here. Most of the total value of the investments is coming from the large ones
- These investments typically also involve only one function within company

Process

- The starting point in major investments, like expansion of production capacity, is the long-term plan (investment road maps)
- The preliminary plans are prepared during the rolling planning
- The execution starts with a detailed investment plan and proposal which is approved according to the authorization guidelines



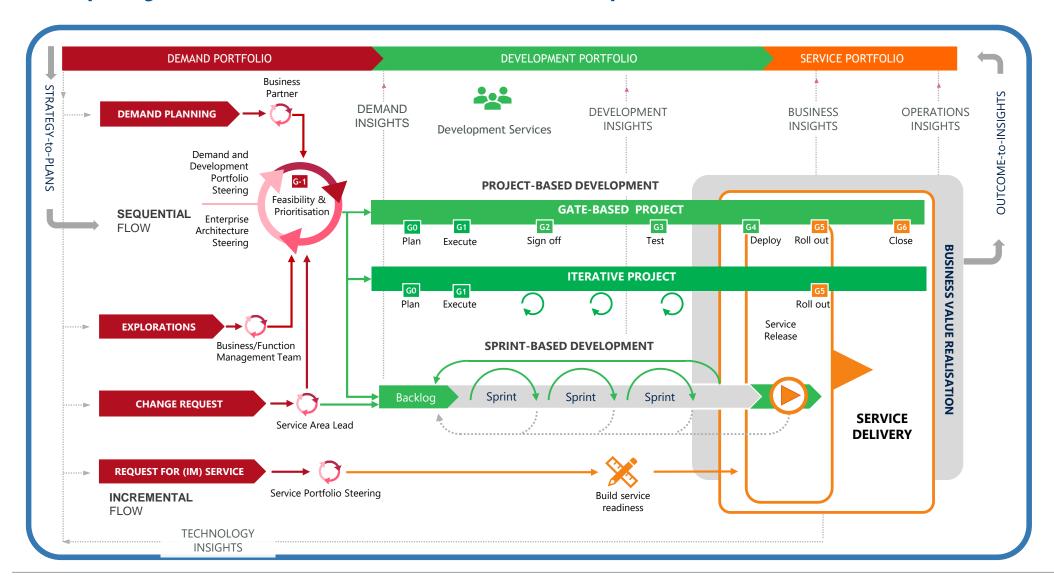
- Buildings and machines (2)



Rolling planning for Investments:

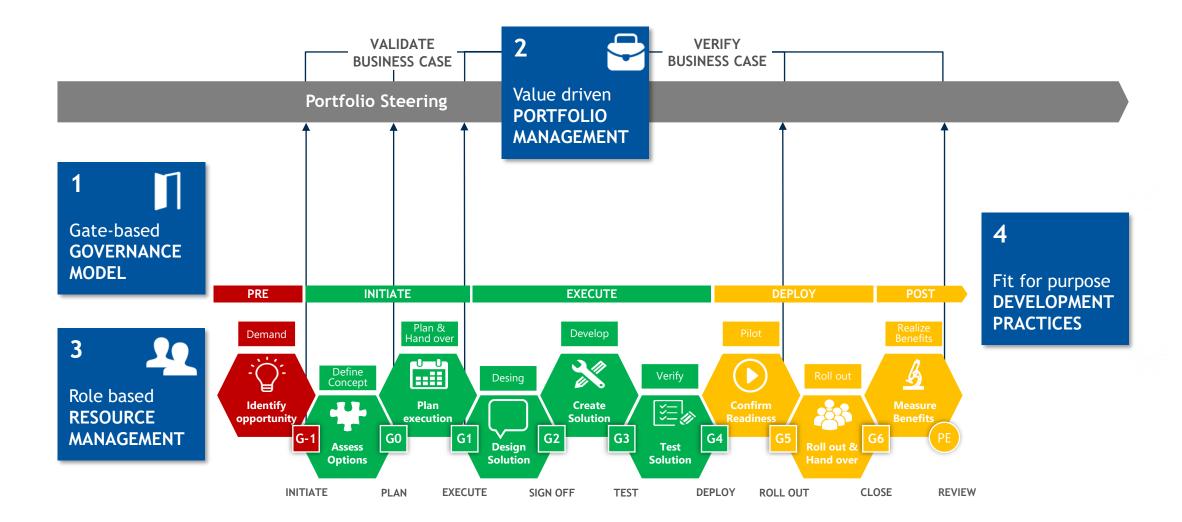
- 1. 0-18 months plan: monthly cost estimates for investments
- 2. 19-60 months plan: quarterly/annual cost estimates for investment ideas / projects

IM projects: End-to-End development





Principles for the IM adaptable project model





IM projects

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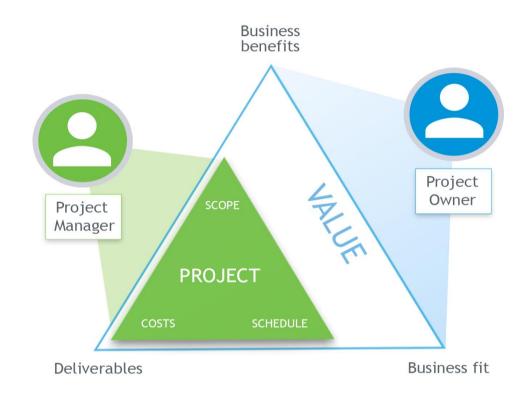


- A Value-driven approach to Project Steering

The Project Model promotes a value-driven approach to Project and Portfolio Management:

- The business case sums up the business goals, justification and high-level delivery approach of a project.
- Business takes over responsibilities from the project in order to obtain benefits.
- The progress of the project is validated against goals and resource commitments throughout the project lifecycle, continually aligning the justification and viability to potentially changing internal and external factors.

A value-driven approach ensures that any project is actually required and that it can be delivered in budget, schedule and scope. Limited resources are focused in a manner that optimally supports business an creates value. The two key roles Accountable and Responsible are the Project Owner (Business Owner) and the Project Manager.



IM projects: Development alternatives

Major SAP renewal program going on

Most of the development still done with this method





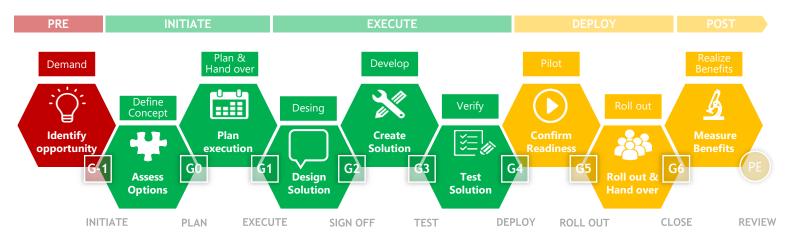


E						Ва	CKIO
1	PRE INITIATI	Ε	EXECUTE		DEPLOY	POST	
VIE	Define Concept	Plan B Hand over Design Plan Cartesian Cartesian Design Solution	Create Solution	Verify Test Solution	Roll out 8	Realize Bonefits Measure Benefits G6	E
	INITIATE	EXECUTE	SIGN OFF TEST	DEPLO	Y ROLL OUT	LOSE REV	TEW

Program	Gate-Based Project	Iterative Project	Sprint-Based Development
Transformation	Sequential development	Hybrid development	Incremental development
Program organization	Project organization	Project organization	Dedicated capacity
Yearly clock	Gate-based stages	Iterations between G1 – G5	Continual sprint-based flow
Separately decided milestones	All project gates	Only the main gates	Sprint-based cadence with decision points
"Large enterprice level transformation"	"Traditional project"	"Agile project"	"Agile development"



IM project stages





Demand

Pre-project refinement – Identify and review of an opportunity. Target is to understand the demand and to prepare a proposal for initial development prioritization decision with focus on business justification.



Define concept

Investigate the business case, project delivery strategy and make any ne cessary formal approaches to prospective suppliers or delivery partners assessing options.



Plan & handover

Agree the project structure and potential combined stages. Finalize the project business case and plan the execution; schedule and Scope including requirements, objectives, resources and finances. Agree the governance and commit to the detailed plan.



Design

The solution design is defined in detail and translated into detailed work units. Objective is to ensure the design does not have functional or technical gaps.



Develop

The solution is implemented according to the design specification and documented properly. The solution is prepared for validation stage. In agile project delivery, there can be several development cycles.



Verify

Integration and user acceptance testing the design and implementation of the solution to the specification. Confirm alignment of the solution with business case, design and release acceptance criteria.



Pilot

Secure the readiness of service operations and support to scale for the planned number of users. Release the service and carry out go-live activities.



Rollout

Focus is to ensure that the desired business benefits of the project will be achieved, and the business changes will be operating as intended. Handover to service is finalized.



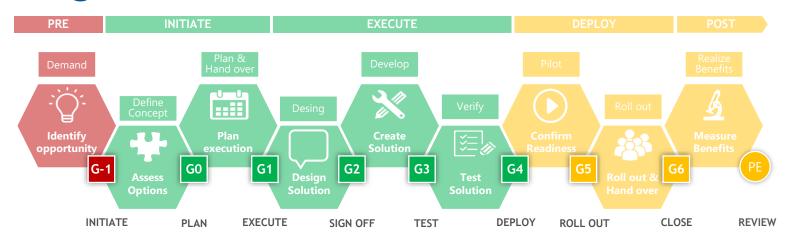
Realize Benefits

Desired business benefits of the project are achieved, and the business changes are operating as intended.





IM project gates



Initiate

Decide whether initiation of the identified AUTHORISE demand or opportunity is justified, and **INITIATION** outcomes of the project are required and viable. Decide development model to be used for the initiative



Plan

Decide whether the business case and the delivery strategy of the suggested solution are sound and justified. Approve the proposed solution, including e.g. its legal, security and enterprise architecture alignment.



EXECUTION

Execute

Approve project's business case, scope, schedule, the governance arrangements. Confirm and validate project planning outcomes and project has prerequisites to continue and success. Take the investment decision on selected supplier(-s), funding and resources committed.



SIGN-OFF

ROLL OUT

Sign off

Confirm validity of the business case against possible internal and external changes and project's prerequisites to continue and success. Confirm design covers all requirements and IM's practices set and the technology and platforms to be used. Approve design of the solution.



Roll out

Confirm validity of the business case and project's prerequisites to continue and success. Confirm service readiness to go live with the solution. Approve the pilot and authorize the release.



Confirm validity of the business case and project's prerequisites to continue and success. Confirm solution has been developed according to the specifications and IM's practices set. Approve implementation with it's documentation and sing-off the test plan.



Closure

Validate the business case and benefits are achievable. Confirm evaluation of the results and learnings have been spread to organization. Approve handover to service and closure of the project approved and the project is closed.



DEPLOY

Confirm validity of the business case and project's prerequisites to continue and success. Confirm test coverage meets requirements and IM practices and solution is ready for deployment. Approve tests in its documentations. Approve the deployment plan and the pilot (if applicable). Authorize singing a supplier contract is applicable



Review

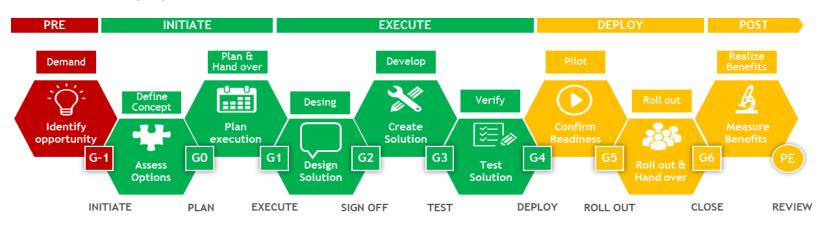
Validate and evaluate realized benefits. Confirm benefits have been measures as planned and results with learnings have been fed back to the stakeholders.



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Project Gate Approvals: The involved decision-making bodies



Decision-making body / Gate	G -1	G0	G1	G2	G3	G4	G5	G6	PE
Project Steering Group	-	Concept Approval	Project Approval	Project Approval	Project Approval	Project Approval	Project Approval	Project Approval	-
Demand and Development Portfolio Steering	IM Approval	IM Approval	IM Approval	Informed	Informed	Informed	IM Approval	Informed	IM Review
Business / Function Management Team	Informed	Informed	Business Approval	Informed	Informed	Informed	Business Approval	Informed	Informed
IIT Steering Committee			Informed					Informed	Informed

Business / Function Management Team approves at the gates G1, G5 and G6 – that is:

- G1: Approve the project plan and confirm total investment*
- G5: Approve successful pilot and give permission to start roll-outs
- G6: Confirm project closing



IM projects

ORION

- Business case

- Business case is required for each investment
 - First preliminary and later the final one after the detailed plan is available
- Business case is typically prepared using standard template
 - Project summary (Project background, Objectives, Benefits, Strategic fit)
 - Project scope (Scope, Risks/Dependencies/Constraints, Governance, Timeline)
 - Cost/Benefits analysis (Tangible, Intangible, Solution lifecycle costs)

- Typical Key focus/discussion areas during approval process
 - Are benefits well enough defined
 - Are there real business improvement benefits and not only (often theoretical) estimates of saved work time
 - How are processes planned to change
 - Do we have sufficient IM and Business resources to actually execute the project as planned
 - Other risk management areas

Licensing/Acquiring a major product



- Top level responsibilities

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- Business teams which are headed by business directors and have members from various functions (R&D, business development, sales, marketing, supply chain, registration, etc.)
 - Mid/Long term plans for business units -> Business driven needs for new products ("wish list")
 - Evaluation of the feasibility of the products identified by business development
 - Decision to take the investment decision proposal to Orion management team

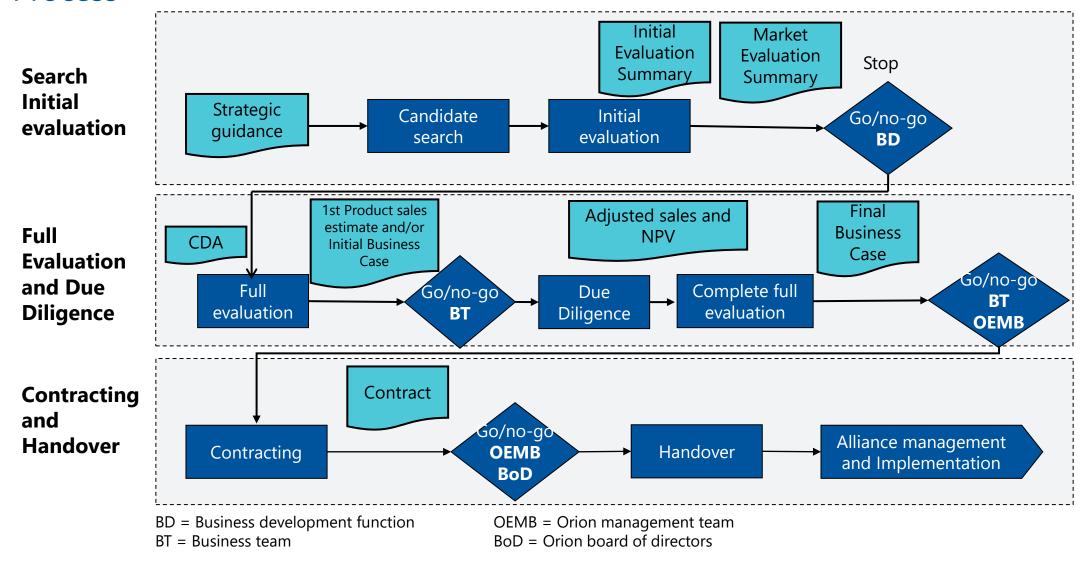
- Business development
 - Screens new products globally from other pharmaceutical companies and negotiates the terms
 - Presents the investment proposal to business team and presents it with the Business director to Orion management team
- Orion management team
 - Approves the investment or decides to take it to the Board of Directors for approval depending on the size and nature of the investment

Licensing/Acquiring a major product



- Process

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Licensing/Acquiring a major product



- Key items in evaluation summary
 - Evaluation summary (incl. IPR, production options)
 - Target Product Profile (TPP) no sales estimates without this description!
 - Relevant customer perspective (Key Opinion Leaders
 Possible development program including costs – KOL's!)
 - Assessment of unmet needs/product benefits/unique selling points
 - Market evaluation summary including:
 - target population and relevant segmentation (disease) prevalence and incidence trends etc.)
 - competitor products on the market
 - pipeline information

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price references incl. reimbursement projections

- Sales estimates for the proposed product (price, market share, S&M costs)
- Launch estimate by region (Quarter/Year)
- Financial Evaluation using NPV's
- Risk assessment and scenarios

Licensing/Acquiring a major product - Financial evaluation



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CASH FLOW	(CASE	X									
Period		Break even			Maturity			Terminal				
Year EBITDA Growth%		2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033
Market sales Growth%		8,8	9,9 13,3 %	10,7 8,0 %	11,6 8,1 %	12,5 8,1 %	13,5 8,1 %	14,6 8,1 %	15,8 8,2 %	17,1 8,2 %	18,5 8,2 %	
Product sales - Partner Product sales - Own/Captive Royalties receivable	65 % 35 % 0 %	3,8 2,2	4,3 2,5	4,6 2,6	5,0 2,8	5,5 3,0	5,9 3,2	6,4 3,4	7,0 3,7	7,6 3,9	8,2 4,2	
GRÓSS SALES		6,0	6,7	7,3	7,8	8,5	9,1	9,9	10,6	11,5	12,4	0,0
Discounts		0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	
NET SALES COGs		5,9	6,7	7,2	7,8	8,4	9,1	9,8	10,6	11,5	12,4	0,0
COGs COGs fixed		2,9	3,3	3,6	3,9	4,2	4,6	5,0	5,4	5,8	6,3	
GROSS PROFIT		3,0	3,4	3,6	3,9	4,2	4,5	4,8	5,2	5,6	6.0	0.0
GP%		51 %	50 %	50 %	50 %	50 %	50 %	49 %	49 %	49 %	49 %	-,-
Distribution costs	3 %	0,2	0,2	0,3	0,3	0,3	0,3	0,3	0,4	0,4	0,4	
Royalty payable	0 %	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	
M&S	8 %	0,5	0,8	0,7	0,7	0,6	0,7	0,7	0,7	0,7	0,7	
R&D	4 %	0,3	0,3	0,3	0,3	0,4	0,4	0,4	0,4	0,4	0,4	
Admin FIXED COSTS	3 %	0,4	0,7	0,4	0,2	0,2 1,5	0,2 1,5	0,2 1,6	0,2	0,2	0,2 1,7	0.0
EBITDA	18 %	1,4 1,6	2,0 1.3	1,7 1,9	1,4 2,4	1,5 2.7	3.0	3,3	1,6 3,6	1,6 4,0	4.4	0,0 0.0
EBITDA%		1,6 27 %	20 %	1,9 26 %	2,4 31 %	2, <i>1</i> 32 %	3,U 33 %	3,3 34 %	3,6 34 %	4,0 35 %	4,4 35 %	0,0
Change on NWC Investments/milestones	30 %	1,8 16,6	0,2	0,2	0,2	0,2	0,2	0,2	0,2	0,3	0,3	
NET CASH FLOW		-16,8	1,1	1,8	2,3	2,5	2,8	3,1	3,4	3,7	4,1	4,1
CUMULATIVE CASH FLOW		-16,8	-15,7	-13,9	-11,6	-9,1	-6,3	-3,3	0,1	3,8	7,9	12,0
PAID BACK YEAR	2030											
Discount rate%	10 %	0,909	0,826	0,751	0,683	0,621	0,564	0,513	0,467	0,424	0,386	
DISCOUNTED CF		-15,3	0,9	1,3	1,6	1,6	1,6	1,6	1,6	1,6	1,6	30,1
CUMULATIVE DCF		-15,3	-14,3	-13,0	-11,5	-9,9	-8,3	-6,8	-5,2	-3,6	-2,0	28,0
NET PRESENT VALUE	28,0			-9,9					7,9			30,1
NPV SHARE				-41 %					135 %			107 %
IRR							9 %					

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A couple of relatively large deals (for Orion) have been done during last years

5/6/2022

Orion enters into exclusive agreement with Jemincare for novel non-opioid drug candidate for the treatment of pain

Orion enters into exclusive agreement with Jemincare for novel non-opioid drug candidate for the treatment of pain

ORION CORPORATION PRESS RELEASE 6 MAY 2022 at 9.00 EEST

Orion enters into exclusive agreement with Jemincare for novel non-opioid drug candidate for the treatment of pain

Orion Corporation has entered into an agreement with Chinese Jemincare, through which Orion will receive exclusive global development and commersialisation rights, excluding the Greater China area (mainland China, Hong Kong, Macau and Taiwan), for a potent and selective NaV 1.8 blocker for the treatment of acute and chronic pain. Orion will also receive ownership to certain key patent applications relating to the compound within its own territory.

According to the agreement, Orion has the right to develop and commercialise the asset in its territory. Orion will be fully responsible for its own development and commercialisation costs. In addition, Orion will manufacture the products, including active pharmaceutical ingredient, for its markets.

Under the terms of the agreement, Orion will pay Jemincare a EUR 15 million upfront payment, in addition to which Jemincare is upon achievement of certain development, commercialisation and sales targets entitled to receive milestone payments, which may be significant. In addition, Jemincare is eligible to receive tiered royalty of 8% to 15% on future sales in Orion territory.

- Molecule has now entered ph I stage development
- Orion owns assets/rights outside of China
- High market need for non-opioid treatment for pain
- Orion made EUR 15 million upfront payment

1/4/2023

Orion and Amneal enter strategic partnership - Orion receives exclusive licence to commercialise Amneal's generic products in Europe, Australia and New Zealand

Orion and Amneal enter strategic partnership – Orion receives exclusive licence to commercialise Amneal's generic products in Europe, Australia and New Zealand

ORION CORPORATION PRESS RELEASE 4 JANUARY 2023 at 16.00 EET

Orion and Amneal enter strategic partnership – Orion receives exclusive licence to commercialise Amneal's generic products in Europe, Australia and New Zealand

Orion Corporation today announced it has signed a long-term license agreement with Amneal Pharmaceuticals, Inc. to commercialise Amneal's generic products in Orion territories.

Under the terms of the agreement, Orion is granted exclusive licence to commercialise and sell Amneal's generic products in most parts of Europe as well as in Australia and New Zealand. The initial portfolio will include a mix of generic products commercially available in the U.S. today, as well as selected pipeline products currently under development. Initial products will be registered throughout Europe, Australia and New Zealand starting in 2023, with launches expected over the coming years.

- Amneal has a large generic portfolio of products already commercialized in US. Orion will co-develop and commercialize their products in Europe, Australia and New Zealand
- Orion made EUR 25 million upfront payment





Research and development





- a very long process in pharmaceutical industry

Preclinical investigations

Chemistry

Search of active lead compounds

Patent appli-cations

Pharmacology &

Toxicology

drug
Different
animal
species

Candidate

Efficacy studies

Patent applications

IND

Authority handling before clinical trials

Clinical trials

Phase I

Effects of the investigational drug in healthy volunteers

20-50

study

subjects

Phase 2

Small scale studies in patients
Proof of concept 50-200

patients

Phase 3

Comparative controlled studies 500-3000 patients

NDA

Drug
approval
process
by
authorities

Phase 3

New indication Or Phase 4 Outcome studies

Investment

Level of knowledge

2 - 6 years

< 1 year

3 - 8 years

<1,5 yrs

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- Largest investments of Orion
- 12-15 years from idea to market
- Successful development of a new product (new chemical entity = NCE) costs typically several hundred million euros
- Only very few new molecule/product will enter the clinical studies (=drug is given to people) and only about 1/10 of molecules that have reached this stage will finally get marketing approval
- Despite the constantly increased spending on research the number of new pharmaceuticals that have received market authorization has decreased during last decade
 - There are though some signs of a growing trend again due to e.g. technological development
- Large investment are currently being made in pharma industry in A.I. technologies, which are hoped to shorted development times

- Decisions about new drug development projects are the most important ones made in research based pharmaceutical companies
 - Really long-term investments

- Collaborative networks across the R&D value chain

Research			Early de	evelopment	Late stage	Late stage development		
Target identification and validation	Hit to Lead generation	Lead optimisation	Candidate selection, preclinical	Phase I	Phase II	Phase III		
8–24 mo.	12–24 mo.	18–36 mo.	development 12–24 mo.	12–14 mo.	12–36 mo.	18–48 mo.		

Collaboration with partners

Early-stage pharma partnering in Orion

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- Partner has early-stage research data from a new molecule, or some technical expertise Orion does not have
- Risk and reward sharing, partner typically gets milestone payments based on reaching agreed research and sales targets and small royalty of the future sales
- Partner has limited or no commercial capabilities

Collaboration with partners

Late-stage pharma partnering in Orion

- Late-stage partnering typically after Phase II (i.e. after proof of concept, PoC)
- Risk and reward sharing (milestone payments, sharing of R&D costs, royalties, possible sales & manufacturing cooperation)
- Partner has commercial capabilities in regions where Orion is not present, especially in USA
- Potential for income before commercial sales in form of milestones





- Evaluation of the profitability of the investment

- At early stages the emphasis is on
 - Ideas about potential <u>new innovative</u> mechanisms of action
 - Ideas about possible target diseases and unmet medical needs
 - Technical feasibility including IPR
 - Evaluation of competition

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and not yet very much on profitability calculations due to HUGE uncertainties

- NPV is built only when development costs and sales forecasts can be defined to somewhat reliable degree
 - When the final target disease has been decided (sometimes only on phase 2)
 - When development program design is becoming more clear
 - When partnering strategy is getting more clear
 - Evaluation criteria is more or less the same as in inlicensing calculations

5T framework is used to evaluate the success factors of development programs



larget (aptidag	
Target Confiden	ice.

- Mechanism of action which provides a link between the target and disease driver (inhouse data)
- Treatment modality / Druggability

Target Engagement

• Target engagement biomarker to verify the biological modulation of the target pathway in vivo

Target Patients

 Patient selection biomarker to identify the right patients for the drug modulating the target pathway

Target Safety

• Summary of the safety aspects (based on the literature in idea phase and experiments or trial data in later phases)

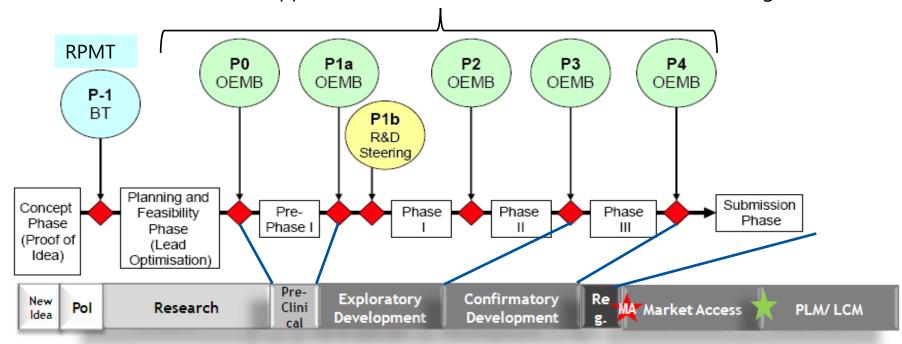
Target Competition

- · Unmet medical need
- Competitive landscape



- Governance structure/R&D steering process

Because of the size of the investment/cost commitment
Board of Directors approval is needed in most cases at least in these stages



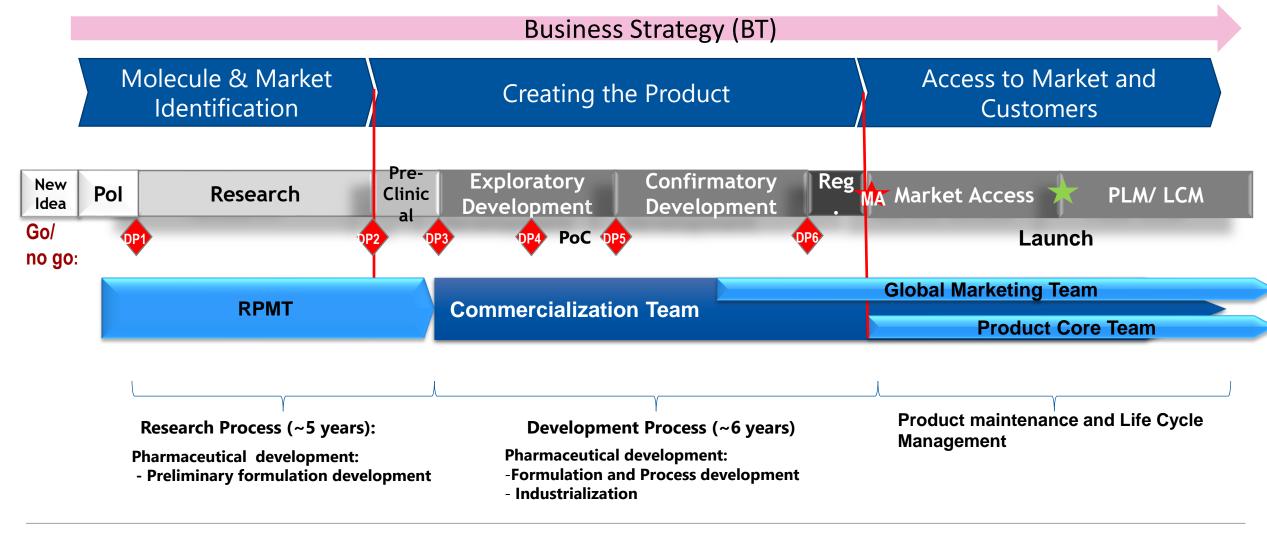
BT = Business Team -> Business Division level decisions
OEMB= Orion Executive Management Board -> Corporate level decisions

PLM/LCM = Product Lifecycle Management

MA = Market Authorization

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- Commercialization work starts long before approval and actual launch

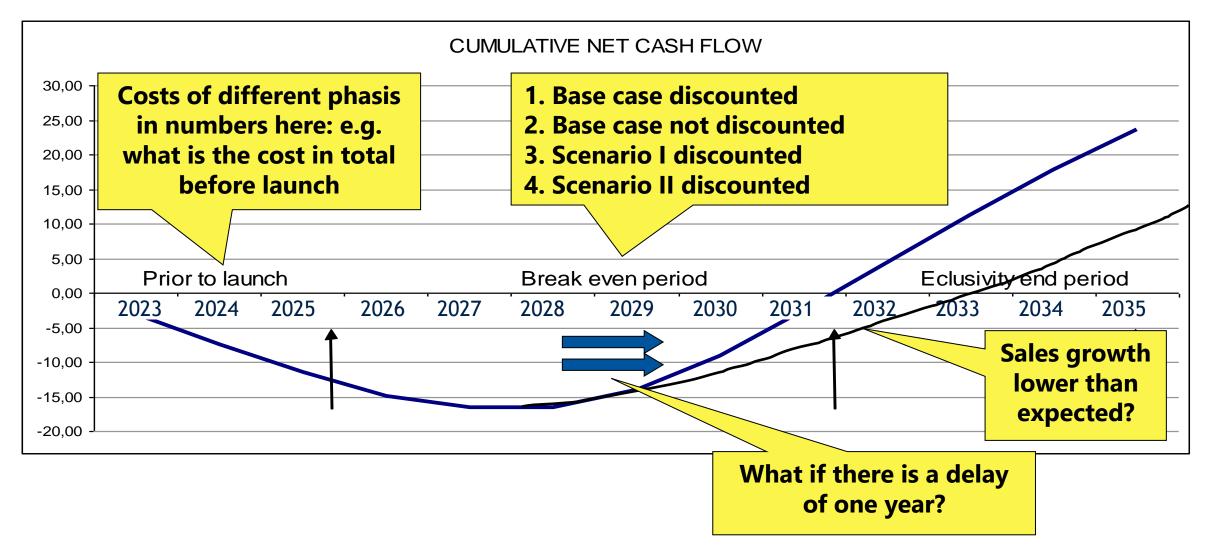




ORION

- Cumulative Cash flow

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- Financial evaluation (1)

Base case NPV: Project X

Million €	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037
GROSS SALES	0,0	0,0	0,0	1,8	7,3	22,3	33,7	37,8	38,2	38,6	39,0	39,4	19,9	10,0	10,1
Milestone payments	0,0	0,0	0,0	3,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
Sales to a partner	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
Royalty receivable	0,0	0,0	0,0	0,6	2,4	7,4	11,2	12,6	12,7	12,9	13,0	13,1	6,6	3,3	3,4
Sales correction items	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
NET SALES	0,0	0,0	0,0	5,4	9,8	29,7	45,0	50,5	51,0	51,5	52,0	52,5	26,5	13,4	13,5
Royalty payable	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
Production variable costs	0,0	0,0	0,0	0,1	0,2	0,7	1,1	1,3	1,3	1,3	1,3	1,3	0,7	0,3	0,3
Other variable costs	0,0	0,0	0,0	0,0	0,0	0,0	0,1	0,1	0,1	0,1	0,1	0,1	0,0	0,0	0,0
GROSS MARGIN	0,0	0,0	0,0	5,4	9,5	28,9	43,8	49,1	49,6	50,1	50,6	51,1	25,8	13,0	13,2
%	0 %	0 %	0 %	99 %	97 %	97 %	97 %	97 %	97 %	97 %	97 %	97 %	97 %	97 %	97 %
Production fixed costs	0,0	0,0	0,0	0,1	0,4	1,3	1,9	2,2	2,2	2,2	2,2	2,2	1,1	0,6	0,6
Marketing	0,0	0,5	5,1	12,2	12,1	10,1	9,1	9,1	8,0	7,5	7,0	6,5	3,5	0,5	0,0
Research and development	11,2	10,7	5,8	0,2	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
Administration	0,0	0,0	0,0	0,0	0,1	0,4	0,7	0,8	0,8	0,8	0,8	0,8	0,4	0,2	0,2
OPERATING MARGIN	-11,2	-11,2	-10,9	-7,2	-3,1	17,1	32,1	37,1	38,7	39,6	40,6	41,6	20,8	11,8	12,4
%	0 %	0 %	0 %	-132 %	-32 %	58 %	71 %	74 %	76 %	77 %	78 %	79 %	78 %	88 %	92 %
Change on net working capital	0,0	0,0	0,0	0,5	1,7	4,5	3,4	1,2	0,1	0,1	0,1	0,1	-5,8	-3,0	0,0
Investments in fixed assets	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
NET CASH FLOW	-11,2	-11,2	-10,9	-7,7	-4,8	12,6	28,6	35,9	38,6	39,5	40,5	41,5	26,6	14,7	12,4
CUMULATIVE NET CASH FLOW	-11,2	-22,5	-33,4	-41,1	-45,8	-33,2	-4,6	31,3	69,9	109,4	149,9	191,4	218,0	232,7	245,1

NPV 12% (2023-2027) -34,3 royalty 35 % received from partner

NPV 12% (2023-2032 26,1

IRR (2023-2032 23,6%

NPV 12% (2023-2037 59,8

IRR 2023-2037 29,5%

In Black 2030

FOR INFORMATION

MS 30 %
Price 16 per vial 130 EUR/day
Days 4



- Financial evaluation (2)

... if market prices are 25% lower

Million €	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	203	3 20)34 2	035 2	036 20	37
GROSS SALES	0,0	0,0	0,0	1,4	5,5	16,7	25,3	28,4	28,7	29,0	29,2	29,5	14,9	7,5	7,6	
Milestone payments	0,0	0,0	0,0	3,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	
Sales to a partner	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	
Royalty receivable	0,0	0,0	0,0	0,5	1,8	5,6	8,4	9,5	9,6	9,7	9,7	9,8	5,0	2,5	2,5	
Sales correction items	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	
NET SALES	0,0	0,0	0,0	4,8	7,3	22,3	33,7	37,8	38,2	38,6	39,0	39,4	19,9	10,0	10,1	
Royalty payable	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	
Production variable costs	0,0	0,0	0,0	0,1	0,2	0,7	1,1	1,3	1,3	1,3	1,3	1,3	0,7	0,3	0,3	
Other variable costs	0,0	0,0	0,0	0,0	0,0	0,0	0,1	0,1	0,1	0,1	0,1	0,1	0,0	0,0	0,0	
GROSS MARGIN	0,0	0,0	0,0	4,8	7,1	21,5	32,5	36,5	36,9	37,2	37,6	38,0	19,2	9,7	9,8	
%	0%	0%	0%	99%	96%	96%	96%	96%	96%	96%	96%	96%	96%	96%	96%	
Production fixed costs	0,0	0,0	0,0	0,1	0,4	1,3	1,9	2,2	2,2	2,2	2,2	2,2	1,1	0,6	0,6	
Marketing	0,0	0,5	5,1	12,2	12,1	10,1	9,1	9,1	8,0	7,5	7,0	6,5	3,5	0,5	0,0	
Research and development	11,2	10,7	5,8	0,2	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	
Administration	0,0	0,0	0,0	0,0	0,1	0,3	0,5	0,6	0,6	0,6	0,6	0,6	0,3	0,2	0,2	
OPERATING MARGIN	-11,2	-11,2	-10,9	-7,7	-5,5	9,8	21,0	24,7	26,1	27,0	27,8	28,7	14,3	8,5	9,1	
%	0%	0%	0%	-161%	-75%	44%	62%	65%	68%	70%	71%	73%	72%	84%	89%	
Change on net working capital	0,0	0,0	0,0	0,4	1,2	3,4	2,6	0,9	0,1	0,1	0,1	0,1	-4,4	-2,2	0,0	
Investments in fixed assets	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	
NET CASH FLOW	-11,2	-11,2	-10,9	-8,2	-6,8	6,4	18,4	23,8	26,0	26,9	27,7	28,6	18,6	10,7	9,0	
CUMULATIVE NET CASH FLOW	-11,2	-22,5	-33,4	-41,5	-48,3	-41,9	-23,4	0,3	26,4	53,2	81,0	109,5	128,2	138,8	147,9	

NPV 12% (2023-2027) -35,8 royalty **35**% received from partner

IRR (2023-2032 13,8%

NPV 12% (2023-2037 26,9

IRR 2023-2037 21,2%

In Black 2030

FOR INFORMATION / Segment 1

MS 30%

Price 12,2 per vial 97,5 EUR/day Days 4

Research Areas in Orion's R&D



PAIN



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Ion channels and neuroimmune interaction

ONCOLOGY



Immuno-Oncology

- FiCAR T-cell therapy
- 2nd generation immunecheckpoint inhibitors



Cancer genomics and Cell signalling



Antibody drug conjugates

Key clinical development pipeline



Project/compound	Indication	PHASE I	PHASE II	PHASE III	REGISTRATION
ARANOTE / darolutamide ¹	Prostate cancer (mHSPC)			Ongoing	
ARASTEP / darolutamide ¹	Prostate cancer (BCR)			Ongoing	
OMAHA1 / ODM-208 (MK-5684-003) ²	Prostate cancer (mCRPC)			Initiated	
OMAHA2a / ODM-208 (MK-5684-004) ²	Prostate cancer (mCRPC)			Initiated	
CYPIDES / ODM-208 ²	Prostate cancer (mCRPC)		Ongoing		
ODM-105 / tasipimidine	Insomnia		Phase Ila Ongoing		
ODM-111 (NaV 1.8 blocker)	Pain	Ongoing			
ODM-212 (TEAD inhibitor)	Solid tumours	Ongoing			

Oncology

Pain / neurology

¹ In collaboration with Bayer

² In collaboration with MSD

Major news in 2022 about products/molecules developed by Orion

2/17/2022

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Orion's collaboration partner Bayer upgrades estimate on Nubeqa®'s peak sales potential

Orion's collaboration partner Bayer upgrades estimate on Nubeqa®'s peak sales potential

ORION CORPORATION
INSIDE INFORMATION / STOCK EXCHANGE RELEASE
17 FEBRUARY 2022 at 23,32 EET

Orion's collaboration partner Bayer upgrades estimate on Nubeqa®'s peak sales potential

Orion's collaboration partner Bayer has upgraded estimate on Nubeqa®'s (darolutamide) peak sales potential. According to Bayer's new estimate, Nubeqa's annual global peak sales could exceed EUR 3 billion. Earlier Bayer has anticipated that Nubeqa's annual global peak sales could exceed EUR 1 billion.

Bayer holds global commercial rights to darolutamide and Orion is entitled to receive annually tiered royalties on global darolutamide sales. The total annual royalty rate is approximately 20% including product sales to Bayer. Initially the total annual royalty rate will be slightly lower, and as sales increase, the total annual royalty rate will increase. Orion manufactures the product for global markets and co-promotes the product in Europe with Bayer.

In addition to royalties, Orion is entitled to receive progressive one-off milestone payments from Bayer that may total EUR 280 million, depending on the future sales development of Nubeqa.



At EUR 3 billion market sales royalty for Orion would be about 25% (i.e. 750 million euros)

Orion received USD 290 million upfroint payment from MSD in July



7/13/2022

Orion and MSD announce global collaboration for the development and commercialisation of ODM-208, an investigational steroid synthesis inhibitor for the treatment of metastatic castration-resistant prostate cancer

Orion and MSD announce global collaboration for the development and commercialisation of ODM-208, an investigational steroid synthesis inhibitor for the treatment of metastatic castration-resistant prostate cancer

ORION CORPORATION STOCK EXCHANGE RELEASE – INSIDE INFORMATION 13 JULY 2022 at 9.00 EEST

Orion and MSD announce global collaboration for the development and commercialisation of ODM-208, an investigational steroid synthesis inhibitor for the treatment of metastatic castration-resistant prostate cancer

- Orion to receive an upfront payment of USD 290 million
- Agreement strengthens and complements MSD's oncology pipeline

Orion Corporation ("Orion") and MSD (tradename of Merck & Co., Inc. Rahway NJ USA) today announced a global development and commercialisation agreement for Orion's investigational candidate ODM-208 and other drugs targeting cytochrome P450 11A1 (CYP11A1), an enzyme important in steroid production. ODM-208 is an oral, non-steroidal inhibitor of CYP11A1 currently being evaluated in a Phase 2 clinical trial for the treatment of patients with metastatic castration-resistant prostate cancer (mCRPC).

Under the terms of the agreement, Orion and MSD, acting through its subsidiary, Merck Sharp & Dohme LLC, will co-develop and co-commercialise ODM-208. MSD will make an upfront payment to Orion of USD 290 million, which will be expensed by MSD in the third quarter of 2022 and included in non-GAAP results. Of this upfront payment, Orion recognises approximately EUR 220 million as income at the time of signing and approximately EUR 60 million is reserved to cover Orion's share of ODM-208 development cost to be accrued in the future. Orion will be responsible for the manufacture of clinical and commercial supply of ODM-208.



Global prostate cancer estimates (GLOBOCAN 2020)



2.

most commonly diagnosed malignancy in men worldwide

5.

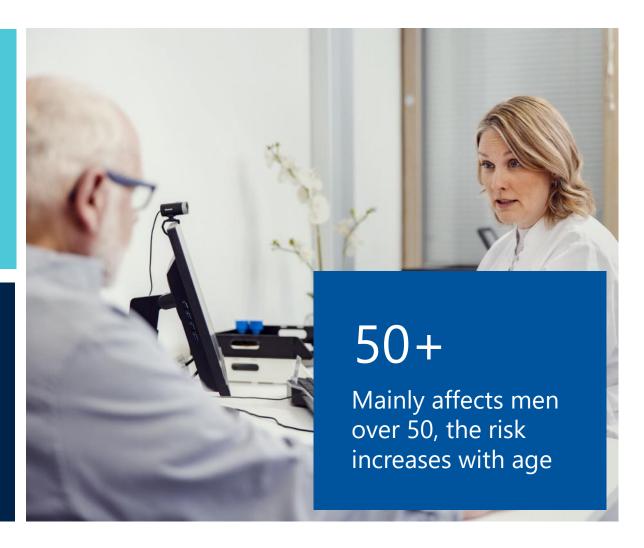
leading cause of death from cancer in men

1,4

44

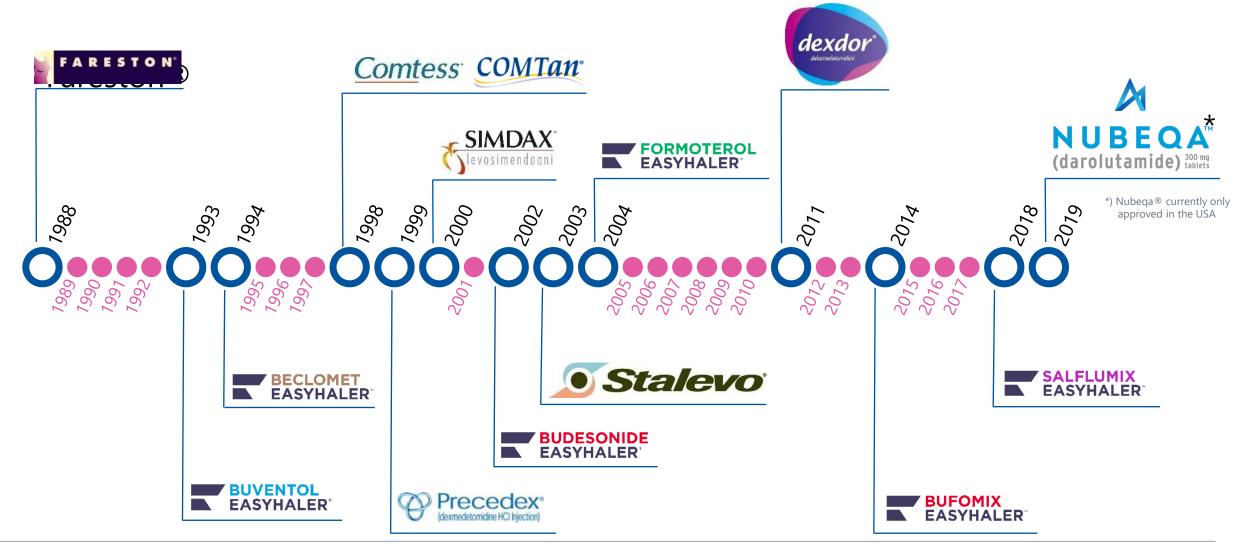
million men diagnosed with prostate cancer 375 000

Died from the disease



Proprietary human pharmaceuticals developed by Orion **SRION**





Jari Karlson / Orion Aalto University / 19 Mar 2024

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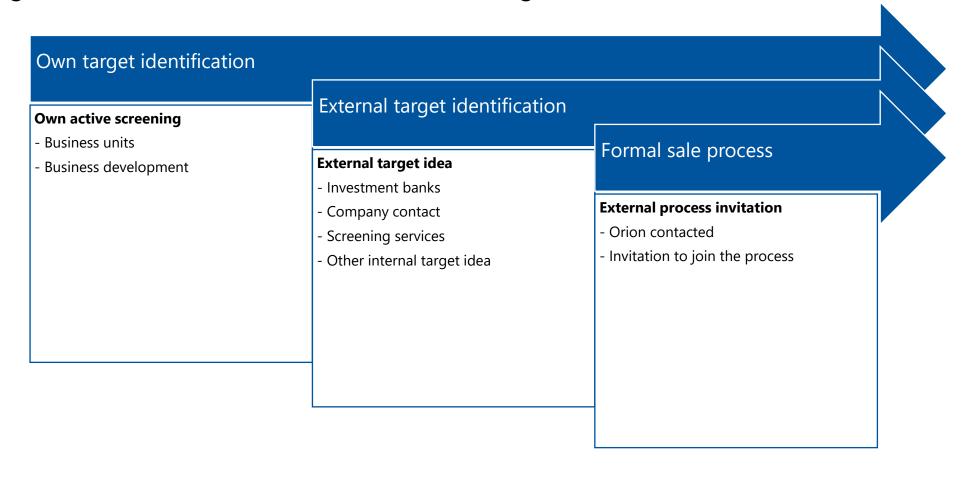


Mergers and Acquisitions



Acquisition process (1)

Starting Point Differs based on the Source of the Target Idea





Aalto University / 19 Mar 2024

Acquisition process (2)



Cor	porate	Strategy:	OEMB

Business Owner: Business Head

Project Steering Team

Screening

- •Comprehensive target screening on the areas of Orion strategic interests
- •Continuous dialogue between the businesses and BD
- •Short-listing and selection of the key targets
- Active key target follow-up
- •Early financial modeling

Repeated key questions:

- •Clear business logic to combine the two assets?
- •Why Orion would be a better owner of the targeted asset?

Initial evaluation

- •Decision to initiate the project
- Confirmation of mutual interests
- •CDA
- •Small DD team
- Key DD questions & potential showstoppers
- Orion story building
- Updated financial modeling
- •Define external support needed

Due Diligence

- •Full DD team
- •Decision on external support
- Thorough DD
- •Insider register (if needed)
- •Integration planning
- •Financial modeling
- •Successful DD completion
- Story building
- Agreement drafting
- •Communication planning
- Deal book

Signing

- •Completion of the agreement
- •Completion of the integration plan
- Final decision and approvals
- •Signing
- •Internal and external communication
- •Filings
- Secured handover to integration phase

Closing and Integration

•To convert all pre-signing/preclosing assumptions about synergies, growth and earnings to reality

Project Lead: Business Development, M&A

Legal Lead: Legal Department

DD Lead: To be nominated on project basis

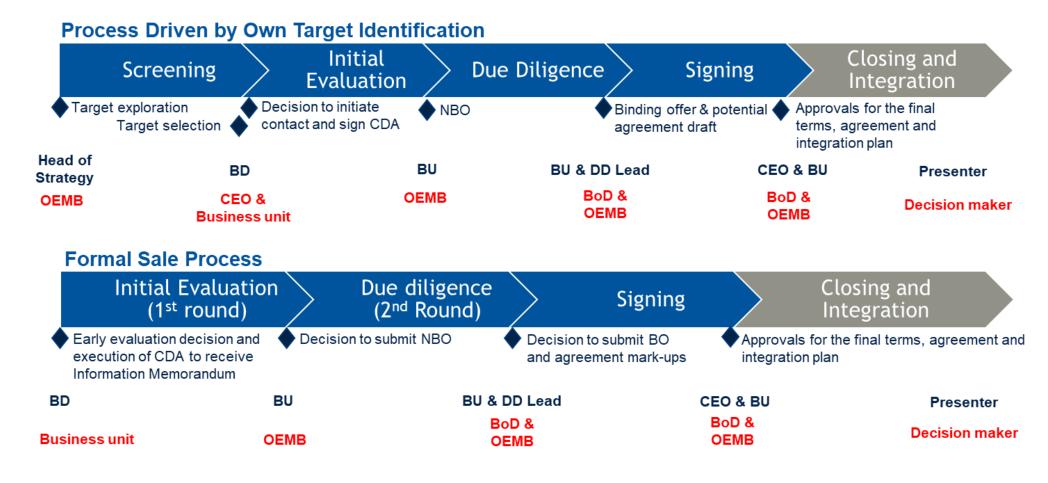
Integration Lead: Nominated by Business / CFO

Quarterly M&A Steering Group

Acquisition process (3)



- Key Decisions Points and Decision Makers

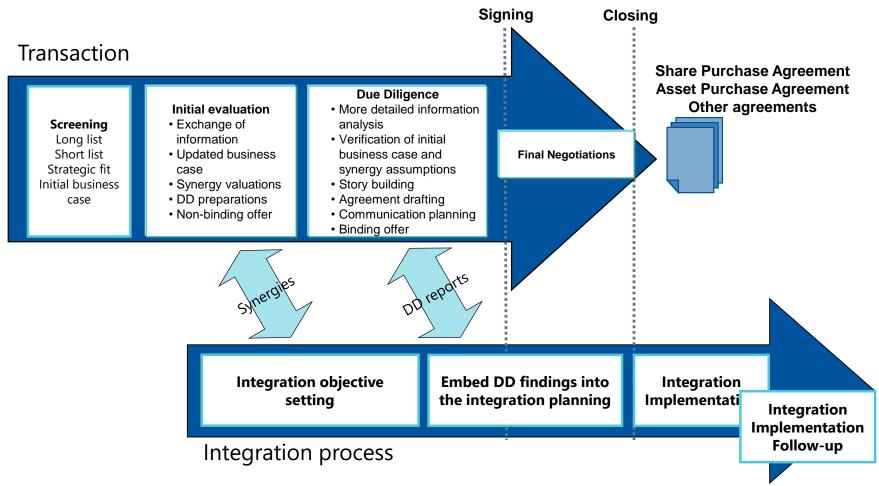


OEMB = Orion Executive Management Board -> Decision to take to **BoD** (= Board of Directors) for final approval

Acquisition process (3)



- Integration



Note: signing and closing can also take place at the same time. Then all integration planning activities coincide with the DD phase. There are also projects where no or very limited integration preparations can be done with the seller before signing.

Orion did in 2022 first acquisition in a long time

6/15/2022

Orion Acquires Inovet's Animal Health Business

Orion Acquires Inovet's Animal Health Business

ORION CORPORATION STOCK EXCHANGE RELEASE – INSIDE INFORMATION 15 June 2022 at 9.30 EEST

Orion Acquires Inovet's Animal Health Business

Orion Corporation ("Orion") has entered into an agreement with Belgian private company Inovet BV ("Inovet") to acquire its wholly owned subsidiary V.M.D. NV and all companies belonging to V.M.D. NV's group of companies (V.M.D. NV and its subsidiary companies collectively, "VMD"). VMD is a veterinary pharmaceuticals company specialised in medicines and health products for livestock. It also has a product portfolio for companion animals and minor species. VMD is headquartered in Arendonk, Belgium. VMD has production sites in Arques, France (manufacturing) and in Arendonk (packaging) as well as its own sales operations in Belgium, France, Hungary and Vietnam. VMD's revenues in 2021 were EUR 61 million, and the group was profitable. Following this acquisition, the 181 employees of VMD will join the Orion Group.

Through this acquisition, Orion's Animal Health unit will expand its product portfolio and get a foothold in the livestock market, expand its own geographical presence to Western Europe and expand export markets, and gain a production unit that is specialised in manufacturing of veterinary medicines. The acquisition also supports Orion Group's growth strategy.

The transaction price is approximately EUR 130 million debt free. The transaction will be funded from Orion's cash reserves. The immediate cash flow impact of the transaction is approximately EUR 90 million. The transaction will have a positive impact on Orion Animal Health unit's net sales and EBITDA starting from 2022. The impact on Orion Group's net sales and operating profit is not material and the transaction does not impact Orion's outlook for 2022, given on 10 February 2022. Orion will report VMD's net sales as part of Orion Animal Health's net sales as of June 2022.

The agreement was signed and the transaction was completed simultaneously today on 15 June 2022.

Net assets acquired	17.7
0 1 7	70.7
Goodwill	73.7
Interest accrual on deferred purchase price	2.2
Preliminary purchase consideration including interest	93.6
Deferred purchase price and earn-out	11.3
Consideration transferred	82.3





Summary



Investment process summary



- Most of the investments are small and thus the planning and execution of them are relatively straight forward processes that are managed by individual functions and departments
- Formal processes have been created for large, strategic and cross functional investments
 - Preparation
 - Proposal
 - Approval

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- In addition to financial measures also many other important aspects are taken into account
 - Strategic fit
 - Resources
 - Market situation
 - Risks
 - Financing
 - ...

Investment process summary



- Financials measures
- Only quite traditional measures are used in the financial evaluation
 - Discounted net present value
 - Payback time
 - IRR

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- Risk is taken into account in the financial analysis by
 - Using especially in R&D project and in-licensing cases a discount interest rate that is a little higher than Orion WACC. In M&A cases the discount rate is quite close to Orion WACC (due to typically more diversified risk profile than in "single" asset investments)
 - Calculating different scenarios using different assumptions for the key parameters
 - Being relatively conservative in the various parameters of the calculation (sales, costs, timing)

Investment process summary



- Why more sophisticated evaluation methods are not used?
- Especially in the evaluation of research programs adaption of more "sophisticated" methods (like real options) have been considered, but they have not been taken into use
- Main reason for continuing with conventional methods is that the advanced ones are often more difficult to comprehend. We do not want to take a risk that people involved in the various stages of making the decision would not be able to understand the rationale behind it.
- In practice, we however are using real option type of approach in making R&D decisions because of the step-by-step process where we consider at each decision-making point several continuation options
- Main consideration when making decisions is in the actual business matters (capabilities, opportunities, risks) not in the accounting techniques

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 Numbers are though an integral part of the process of making decisions and the documentation of the business cases for investments



Thank You

Questions?

