Company:

Rating: Target Price:

Arterra Bioscience

Buy €3.2 (unchanged)

FY23 results: as expected

FY23: slowing Cosmetics turnover (as expected); EBITDA margin strongly recovered above our forecast. Robust cash generation confirmed.

Arterra Bioscience released FY23 results: turnover declined 7% yoy to €3.3mln, bang in line with our estimate *[Company Update on October, 16th 2023]*. Cosmetics turnover lost 10% yoy and came in at €2.7mln, matching our projection. The decrease was primarly due to demand contraction in China, where recovery struggles to take off. Cosmetics volumes were down by 12% yoy to 10.6k due to lower sales in China, whereas both in Europe and North America demand for make-up ingredients was strong. Cosmetics volumes had started to decline in the 3Q22 and had been declining for four consecutive quarters until the 2Q23 at an average above -30%. In the 3Q23 Cosmetics volumes rebounded by almost 50% yoy and this trend inversion partially stopped with a -6% yoy in the 4Q23. According to management, the 1Q24 volumes trend leads to positive expectations for this year. In the 2H23, EBITDA margin significantly improved from 17% in the 1H23 to 32% in FY23, beating our estimate at 26%. At the end of December, despite 25% EBITDA contraction, Net cash rose to €5.7mln from €5.5mln a year earlier confirming Arterra's robust cash generation. In 2017-2023 time frame, the Company generated Free Cash flows at an average of 45% of EBITDA.

Industry trends: Chinese restrictions on Cosmetics; declining sales and lower margins.

In 2023, China introduced new rules on active ingredients to be used in Chinese cosmetics; therefore, global players, including Arterra, had to adapt and test its active compounds according to new Chinese rules. This process has finally ended and now Arterra's entire portfolio is China's compliant. Most of listed peers have been experiencing similar impacts in 2023 with declining turnover and contracting EBITDA margin. Arterra's best peers have been growing above 20% on average in 2018-2022. In 2023, their revenue declined by more than 45% on average with contracting marginality. Since 2018, Arterra had always showed EBITDA margin above its peers' average; in 2023 Arterra's EBITDA margin was 32% vs the average at 24%.

Strategy and Research activities update.

New products have been launched in Cosmetics; in Haircare, new extracts for stimulating hair growth are in the pending process for being patented. In-vitro research, especially on skin and on the intestine, led to new contracts in Agri-Food with Monte Carlo Fruit and new products and clinical studies in Medical Device with ADL and ABR for treating acne, atopic rash and Irritable Bowe Syndrome. Finally, a new potentially disruptive proprietary enabling technology based on a new bacterial system has great odds for innovative compounds in Medical Devices and Pharma.

2024E-2025E estimates fine tuning. Adding 2026E. Back to growth this year.

Amid FY23 results in line with our estimates *[Company Update on October, 16th 2023]*, we fine tuned our projections 2024-2025 and added 2026E. According to management, end of 2023 and the beginning of 2024 have showed signs of demand recovery. We expect this path to continue and confirm our 9% 2022-2025E Cosmetics sales CAGR. We also added 2026E and end with a 20% 2023-2026E Cosmetics sales CAGR with 2024 reaching the best turnover ever above €3.8mln. Despite on-going research projects beyond Cosmetics, we confirm no signifcant turnover before 2026. We project EBITDA margin improvement from 32% in 2023 to 40% in 2026, back to 2022. Cumulated Free Cash Flows are seen at €3.7mln in 2024-2026, including some €1.6mln capex for new production spaces, plants and equipment.

Valuation: BUY confirmed; price target confirmed.

Market multiples have re-rated since our last report both in terms of EV/SALES and EV/EBITDA. The sample of listed international peers now trades at an average of 2.9x EV/SALES and 13.5x EV/EBITDA 2024-2025 vs previous 2.4x and 10.8x respectively. We confirm both our BUY recommendation and 12-month target price to \leq 3.2.

Sector:

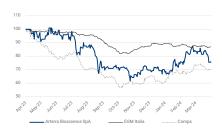
Health Care, Biotech

April, 23nd 2024 at 18:00

Target Price	3.2 €	Unchanged						
Recommendation	BUY	Unchanged						
Company Profile								
Ticker	ARBS IM (BBG)	ABS-IT (Factset)						
Reference Industry	Н	ealth Care - Biotech						
Stock Exchange	Italian Stock Exchange	e - Euronext Growth						
Reference Index	FT	SE Italia Small Cap						
Market Data								
Price as of	23/04/2024	1.8						
Number of shares (r	nln)	6.7						
Market capitalization	n (€, mln)	12.0						
Max / Min		5.0/1.5						
Average daily volum	es (1Y)	15,434						

Key financials	2020	2021	2022	2023E	2024E	2025E	2026E
€/000)							
Total revenue	4,308	4,608	5,303	4,951	5,578	6,327	7,206
уоу (%)	19%	7%	15%	-7%	13%	13%	14%
EBITDA	1,602	1,735	2,133	1,591	2,010	2,389	2,877
margin (%)	37%	38%	40%	32%	36%	38%	40%
EBIT	1,201	1,248	1,601	1,059	1,408	1,677	2,065
margin (%)	28%	27%	30%	21%	25%	27%	29%
Net Income	1,108	1,111	1,414	1,076	1,344	1,566	1,887
margin (%)	26%	24%	27%	22%	24%	25%	26%
Net Debt	(4,066)	(4,199)	(3,796)	(5,672)	(6,042)	(6,793)	(7,855
Equity	8,181	9,473	10,467	10,752	11,429	12,278	13,343
Сарех	383	609	184	100	600	500	500
FCFs	507	385	779	1,311	819	1,243	1,649

1-Year Performance



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Contents

SWOT analysis	3
The Industry	4
China restrictions on cosmetics ingredients. Strong demand of functional make-up from US	4
Arterra Bioscience competitive arena: strategic positioning and competitive advantages	4
FY23 results	7
Slowing cosmetic turnover; EBITDA margin hit by low volumes. Strong cash generatiion, still	7
Strategy Update	10
Focus on: research and production processes optimization	10
Focus on: diversifying in Medical Devices and Agri-food while expanding in Cosmetics via Vitalab	11
Estimates update	14
2024-2025 estimates fine tuning. Adding 2026E	14
Valuation	17
DCF	17
Relative market multiples valuation	18
APPENDIX	21
Biotech serving the irreversible trend of product sustainability	21
Arterra : overview and business model	22
History, overview and activities	22
A scalable and profitable business model	25
Shareholders, Board of Directors and managers: long experience and sounded know-how	25
ESG analysis	27
Sustainability report	27
Sustainability for Arterra	27
Disclaimer	31

SWOT analysis

STRENGTHS

- Outstanding R&D and high qualified Technology Team
- A global market reach with limited sales force investments thanks to the partnership with Intercos and the equity stakes in Vitalab and ADL
- Scalable business model as products and the inhouse developed IPs can be applied simultaneously to different end-markets
- Profitable business model, since its set up, for a very low cost of raw materials and an efficient and light organizational structure

WEAKNESSES

- Small size of the business
- End-markets concentration
- Non optimal cash management

OPPORTUNITY

- Bioscience great momentum as product sustainability has become the key mission of many industries
- Significant growth potential and resilience of main end-market, the Cosmetic industry
- Rich opportunities in Medical Devices and Agrifood
- Effective end-markets di
 - Effective end-markets diversification within the planned time frame
 - Potential difficulty in maintaining the independence from global multinational brands

The Industry

China restrictions on cosmetics ingredients. Strong demand of functional make-up from US

Chinese restrictions on active compounds imports Recovery still slow	In 2023, China introduced restrictions on active ingredients imports. In details, the Country introduced new rigid limits on active ingredients to be used in Chinese cosmetics formulas. China State Council released a final version of rules which replaced the existing Cosmetics Hygiene Supervision Regulations. China's new regulation in Cosmetics includes many changes: i) new cosmetics definitions, scope, and classifications; ii) new management of cosmetics ingredients; iii) additional efficacy claims requirements; iv) safety assessments for cosmetics products and new requirements for safety assessors. Consequently, Arterra had to adapt and test its active compounds according to new Chinese rules. Moreover, the rest of the value chain had significant stock piling that need to be sold in the rest of the world, contracting the demand for active ingredients outside China. This process has finally ended and now Arterra's entire portfolio of active ingredients is China compliant. Nevertheless, recovery from China is still very slow.
Robust demand for functional make-up	Opposite, Cosmetics demand from Western countries remains solid especially for functional make-up in the US.

Arterra Bioscience competitive arena: strategic positioning and competitive advantages

European and US listed biotech	The competitive scenario comprises European and US listed biotech companies active in the research and development of natural substances for industrial green applications.
Arterra profitable business model differs from peers	Main difference between Arterra and its comparables is profitability. Furthermore, Arterra has funded its research, investments, and growth through research grants (at the beginning) with no additional either funds or venture capital needed.

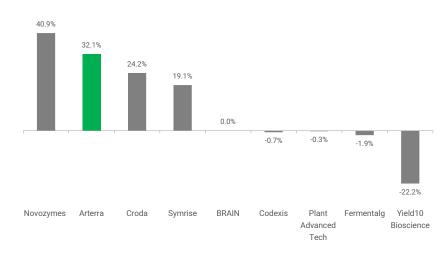


Figure 1: Main international listed players in the Industry - EBITDA margin in 2023

Source: Banca Profilo elaborations on Company data, Factset

The negative EBITDA margin has been divided by 100 in order to make a graphic representation of the competitive arena

In 2023 Arterra showed second to the highest EBITDA margin

Since its foundation, in 2004, Arterra has been showing positive EBITDA, whereas its peers show either negative marginality or much lower profitability than Arterra. We set a sample of listed peers which includes the Danish Novozymes, the British Croda, the German Symrise and Brain, the French Fermentalg and Plant Advanced Techonogy, and the US Codexis and Yield 10

Bioscience. Moreover, we added more mature specialty chemicals companies that have little operations in Natural Resources, such as Lonza, Ashland, OCI and Wacker Chemie.

In 2023, Arterra reported 32% EBITDA margin, second to the highest among peers' sample.

Novozymes (DK) DKK 17.5bn turnover 41% EBITDA margin

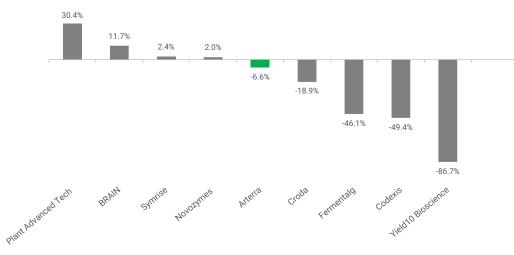
Croda (UK) GBP 1.7bn turnover 24% EBITDA margin Novozymes, a Danish biotech-based company that research, develops and obtain enzymes for Industrial usage and addresses them to the technical enzyme market, the food enzyme market and the animal feed enzyme market.

Croda International PIc, is an English holding of a group of companies that develop specialty chemicals, including oleochemicals (derived from natural oils) and industrial chemicals. Its main end markets are: Consumer Care (35%), including Personal care (natural ingredients for hair, skin especially anti-aging, sun care), Life science (health care and Agriculture with ingredients and formulation to pharma and nutritional markets such as dermatology and animal health and to agrochemical companies); Performance Technologies (34%), to which it delivers high-added value additives such as lubricants for the Automotive and Industrial sectors, coatings and polymers serving Oil & Gas, Water treatment, Packaging sector and Home care ingredients serving Households product manufacturers; Industrial Chemicals (11%) including process additives (fatty acids, glycerin...) to Textiles and other Industrials such as Engineering and Automotive. It is mostly exposed in Western Europe (40%), North America and Asia Pacific.

Symrise (DE) €4.7bn turnover 19% EBITDA margin

Symrise AG, is a German developer of fragrance bases, perfume oils, cosmetic raw materials and active ingredients, plant extracts, aroma chemicals, flavorings, fruit powders and seasonings, mostly based on natural raw materials. It addresses mainly to: Cosmetics, Personal care, Household care, Food & Beverage and Pharmaceuticals. Half of its sales come from Europe.

Figure 2: Main international listed players in the Industry – yoy growth in 2023



Source: Banca Profilo on Company data, Factset

B.R.A.I.N. (DE) €57mln turnover -€93k EBITDA

Biotechnology Research and Information Network AG, is a German industrial biotech company active in both BioSciences, for research and development, and BioIndustrial, for the development, of own products addressed to companies or end consumers. Main products are enzymes, biocatalysts, strains, and bioactive natural substances. The Company discovers and develops biotech compounds and microbial producer strains. Its end markets are mainly: Chemicals, Cosmetics, Food and Medical technology, as well as Energy companies, Consumer goods manufacturers and the green Mining sector.

Codexis (USA) USD 70mln turnover USD -48mln EBITDA	Codexis Inc. is an American developer of protein and biocatalysts through an easy-on-the- environment technology that allows to scale-up and implement biocatalytic solutions for chemical processing. Relevant end-markets include Pharmaceuticals and Chemicals. It has a research agreement with Shell (half of Codexis' sales) to develop new ways of converting biomass into biofuel. It is also working to use its technology to manage carbon emissions from coal-fired power and treat wastewater. Some of its biocatalysts and enzymes are used to produce cholesterol-fighting drugs, allergy drugs and antidepressants. Americas represent almost 60% of Codexis' sales.
Plant Advanced (FR) €3mln turnover € -800k EBITDA	Plant Advanced Technologies SA is a French plant biotechnology firm manufacturing rare new actives for Cosmetics, Pharmaceutical and Agriculture. Its main products are proteins from the liquid of carnivorous plants and other actives from the roots of various plants.
Fermentalg (FR) €4mIn turnover € -8mIn EBITDA	Fermentalg SA, is a French industrial biotechnology company that obtain active ingredients from micro algae. It is an expert in microalgae culture and their industrial fermentation processes. Its main products are molecule including Omega 3 fatty acids, natural pigments antioxidants, proteins and biopolymers. It addresses its production to the following end-markets: Agri-food, Healthcare, Nutrition (human and animal) and Petrochemical industries.
Yield10 Bioscience USD 100k turnover USD -13mln EBITDA	Yield10 Bioscience Inc. is an American agricultural bioscience company which focuses on the development of disruptive plan biotechnologies to improve crop productivity and seed yield and enhance global food security. The goal is to improve fundamental elements of plant metabolism through enhanced photosynthetic efficiency and directed carbon utilization. Most of its treatments are applied to canola, soybean, and corn to increase tolerance to drought, flooding and heat and thus raise their food productivity.
In 2023 Arterra lower decline than the average	In 2023, Arterra reported 7% yoy total revenue decline, which compares to the peers' sample average of -18%.
2023 a complex year for all. Arterra revenue growth and EBITDA margin above average	2023 was a complex year within persisting uncertain scenario for all players in the Industry. Arterra's best peers have been growing above 20% on average in 2018-2022. In 2023, their revenue declined by more than 45% on average with contracting marginality. Since 2018, Arterra has showed EBITDA margin above the peers' median and this was confirmed in 2023 with an EBITDA margin at 32% which compared to median at age at 24%.

Figure 3: Sales growth and marginality 2018-2025E - Sample average vs Arterra



Source: Banca Profilo on Company data, Factset

FY23 results

Slowing cosmetic turnover; EBITDA margin hit by low volumes. Strong cash generatiion, still.

2023: Cosmetic turnover -10% yoy Total revenue -7% yoy in line with forecast Arterra Bioscience released FY23 results: turnover declined 7% yoy to €3.3mln, bang in line with our forecast [*Company Update on October, 16th 2023*]. Cosmetics turnover lost 10% yoy to €2.7mln, matching our estimate. The decrease is primarly due to demand contraction in China, where recovery is still slow. Cosmetics volumes were 10.6k down by 12% yoy due to lower sales in China, whereas sales rose both in Europe and North America where demand for make-up ingredients had been growing. Cosmetics volumes had started to decline in the 3Q22 and had been declining for four consecutive quarters until the 2Q23 at an average above -30%. In the 3Q23 Cosmetics volumes rebounded by almost 50% yoy and this trend inversion partially stopped with a -6% yoy in the 4Q23. According to management, the 1Q24 volumes trend leads to positive expectations for this year.

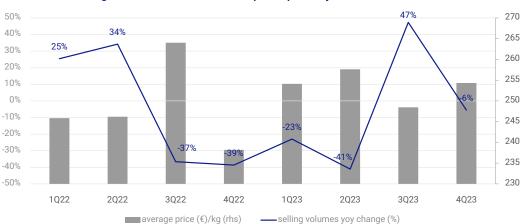


Figure 4: Arterra volumes and price quarterly trends 2022-2023

Source: Banca Profilo on Company data

Raw materials, service and labor costs above 4-year average	Raw Materials and Services costs increased their weight on Total Revenue to 35% in 2023, which compares to past 6-year average below 30% and 31% in 2022. Lower incidence of Raw Materials costs has been more than offset by higher cost of Services mostly related to Research advisory for projects, especially those financed by the University. Even Labour cost increased its weight on Total Revenue to 30% from a 6-year average of 27% and 26% in 2022. This increase comes from wages increases and adjustments. In fact, with 34 employees, the Labour cost per unit rose from €39k in 2022 to €43k in 2023.
EBITDA margin weakened to 32%; yet above estimate	Declining volumes and Revenue hit EBITDA to €1.6mIn from €2.1mIn a year earlier and margin weakened to 32% from 40% in 2022. Nevertheless, EBITDA significantly improved in the 2H23 from 17% in the 1H23, better than our forecast at 26%.
Robust cash generator, still	At the end of December 2025, despite 25% EBITDA contraction, Net cash rose to €5.7mln from €5.5mln a year earlier confirming Arterra's robust cash generation. Free Cash Flows rose to €1.3mln in 2023 from €780k in 2022 driven by lower Net Working Capital, which more than offset lower EBIT.

Profit & Loss								
	€/000	2017	2018	2019	2020	2021	2022	2023
	Cosmetic turnover	1,503	1,868	2,167	2,281	3,253	2,984	2,683
Nutraceutical/medical devices turnover		0	0	0	0	0	0	C
	Agriculture/Agrifood	0	0	0	0	0	0	C
	ontracts and services	551	559	542	541	573	580	621
	cences and royalties	0	0	0	0	0	0	C
Total turnover		2,054	2,427	2,709	2,822	3,825	3,564	3,304
	уоу		18%	12%	4%	36%	-7%	-7%
cosmetic volumes (kg)		5,690	7,142	8,839	9,117	13,342	12,036	10,599
	yoy	<i>90%</i>	26%	24%	<i>3%</i> 250	46%	-10%	-12%
Research grants and sto	<i>cosmetic price (€/kg)</i>	264 692	262 551	245 917	250 1.487	244 783	248 1.740	253 1.647
Research grants and sto	% on total revenue	25%	19%	25%	35%	17%	33%	33%
Total Revenue	% UN IUTAI TEVENUE	2.746	2,978	3,627	4,308	4,608	5,303	4,951
rotar nevenue	νον	45%	8%	22%	19%	7%	15%	-7%
raw materials cost	yoy	(210)	(259)	(455)	(525)	(318)	(507)	(425)
cost of services		(466)	(533)	(726)	(873)	(986)	(1,140)	(1,292)
0031 01 361 11063	% on total revenue	-25%	-27%	-33%	-32%	-28%	-31%	-35%
	% UN IUTAI TEVENUE							
cost of labour	a	(736)	(847)	(1,025)	(1,128)	(1,228)	(1,391)	(1,476)
	% on total revenue	-27%	-28%	-28%	-26%	-27%	-26%	-30%
lease		(123)	(146)	(146)	(151)	(158)	(83)	(82)
other operating costs		(43)	(53)	(38)	(30)	(184)	(51)	(85)
EBITDA		1,167	1,140	1,236	1,602	1,735	2,133	1,591
	margin	43%	38%	34%	37%	38%	40%	32%
# employees		n.a.	20	28	30	35	36	34
labor cost per unit D&A		(1.40)	(42)	(37)	(38)	(35)	(39)	(43)
DaA	% on total revenue	(143) <i>-5%</i>	(73) <i>-2%</i>	(296) <i>-8%</i>	(400) <i>-9%</i>	(487) <i>-11%</i>	(532) <i>-10%</i>	(532) <i>-11%</i>
EBIT		1.024	1.067	940	1,201	1,248	1,601	1,059
CDII		37%	36%	940 26%	28%	27%	30%	21%
net financial income (ex	margin	(7)	<i>30%</i> 6	<i>20%</i>	28%	27% 26	30% 197	∠1% 243
	% on total revenue	-0.2%	0.2%	0.0%	(2) 0.0%	0.6%	3.7%	4.9%
-DT	∿ un lutar reve∩ue							
EBT		1,017	1,073	940	1,199	1,274	1,797	1,302
towaa	margin	37%	36%	26%	28%	28%	34%	26%
taxes		(272)	(29)	(83)	(91)	(163)	(383)	(226)
	tax rate	-27%	-3%	-9%	-8%	-13%	-21%	-17%
Net income	0 I	745	1,044	857	1,108	1,111	1,414	1,076
	% on total revenue	27%	35%	24%	26%	24%	27%	22%

Table 1: Arterra P&L 2017-2023

Source: Banca Profilo on Company data

Net working capital at 53% of Total Revenue for stock piling.

Robust cash generation confirmed

Concerning the Balance Sheet, Fixed assets declined to ≤ 2.2 mln at the end of December 2023 from ≤ 2.7 mln a year earlier mainly for total amortization of IPO costs (4 years). Net operating Working Capital rose to 53% of Total Revenue at the end of 2023 from 50% a year earlier for increasing inventories, mostly Raw materials, which were not completely offset by lower receivables and higher paybles. However, Net operating working capital was basically flat yoy at ≤ 2.6 mln. These dynamics led to a slight increase of net cash at the end of the year to ≤ 5.7 mln from ≤ 5.5 mln at the end of 2022

Table 2: Arterra Balance Sheet and FCFs 2017-2023

€/000	2017	2018	2019	2020	2021	2022	2023
0,000	2017	2010	2017	2020	2021	LULL	2020
tangibles	185	567	1278	1400	1662	1535	123
intangibles	27	108	706	567	442	204	4
financials	462	452	452	452	949	982	98
Fixed assets	675	1,127	2,437	2,419	3,052	2,722	2,254
other current net receivables	131	177	452	912	914	227	86
receivables from grants	1,176	1,062	495	585	755	905	81
trade receivables	303	630	414	339	806	774	69
inventories	263	267	425	570	488	1,157	1,35
trade paybles	(161)	(257)	(500)	(188)	(250)	(188)	(250
Net operating Working Capital	1.582	1.702	834	1.306	1.798	2.648	2.617
% on total revenue	58%	57%	23%	30%	39%	50%	53%
receivables from grants (% grants)	170%	193%	54%	39%	96%	52%	50%
trade receivables (% revenue)	11%	21%	11%	8%	17%	15%	14%
inventories (% revenue)	10%	9%	12%	13%	11%	22%	27%
trade paybles (% COGS)	24%	32%	42%	13%	19%	11%	15%
Capex	50	536	1,897	383	609	184	10
tangible	28	447	1143	342	541	179	9
intangibles	22	89	754	40	68	5	1
% on total revenue	2%	18%	52%	9%	13%	3%	2%
Provisions	(629)	(630)	(504)	(522)	(490)	(632)	(659
	(02))	(000)	(004)	(011)	(490)	(002)	(00)
Invested Capital	1,757	2,375	3,218	4,115	5,273	4,965	5,080
	250	050	327	200	000	333	00
shareholders' equity reserves	250 720	250 1,265	5,926	330 6,742	333 8,029	8,720	33 9,34
net income	745	1,203	857	1,108	1,111	1.414	1,07
Equity	1,715	2,559	7,110	8,181	9,473	10,467	10,752
Equity	1,713	2,339	7,110	0,101	9,473	10,407	10,752
Net debt (cash)	42	(185)	(3,892)	(4,066)	(4,199)	(5,502)	(5,672
cash and cash equivalents	(249)	(738)	(4,669)	(4,536)	(4,814)	(4,393)	
short term loans to equity participated	(340)	(340)	(225)	(340)	0	0	
bank debt	630	893	1,002	809	614	489	
financial short term assets						(1,598)	
leasing (IFRS 16)	389	309	228	107.3	107.6	107	
adj Net debt (cash)	771	464	(3,439)	(3,619)	(4,092)	(3,796)	(5,672
*			,	,		,	
Free Cash Flows							
€/000	2017	2018	2019	2020	2021	2022	2023

	€/000	2017	2018	2019	2020	2021	2022	2023
EBIT		1.024	1.067	940	1,201	1.040	1,601	1,059
tax (figurative)		(205)	(213)	(188)	(240)	1,248 (250)	(320)	(212)
D&A		143	73	296	400	487	532	532
change in Net Working Capital		(219)	(120)	868	(472)	(492)	(850)	31
capex		(50)	(536)	(1,153)	(383)	(609)	(184)	(100)
Free Cash Flow		693	270	762	507	385	779	1,311

Source: Banca Profilo on Company data

2017-2023 : Free Cash Flows at 45% EBITDA

Analysing a 6-year P&L timeframe we can appreciate that i) Total Revenue, EBITDA and Net Income grew at similar 13-14% CAGR; ii) EBITDA margin stayed on average above 35% and iii) cumulated Free Cash Flows were close to €5mln or 45% the EBITDA on average.

Strategy Update

Focus on: research and production processes optimization

Over €3mln capex since 2019 to enhance research capabilities, scale up production and increase productivity Since 2019, Arterra increased its production capacity and research activity investing over €3mln. In 2021, The Company extended further its production plant, bought additional equipment, and invested in technology to enhance cellular growth. Among relevant investments: i) equipment for "ex vivo" tests on skin and human tissues for innovation in Nutraceutical and medical devices; ii) new lyophilizers; iii) expanding chemical laboratories for cellular growth. These investments led to an increase in productivity from 21kgs/day in 2021 to 50kgs/day in FY22. Arterra has planned further investments this year in production plants and equipment not only for expansion but also for optimization.

Year	Fulfilled orders (kg)	Productivity kg/day	Productivity Euro/day	Outsourcing (Euro)	
				Cell Culture	Lyophilization
2019	8860	9	3150	147.800	8.800
2020	9117	21	7350	272.636	8.000
2021	13.335	21	7.350	14.400	20.000
2022	E. 14.500	50	17.500	62.560	8000

Table 3: Arterra new laboratories

Source: Company data

Simplifying and streamlining research and production processes In 2020-2022 Arterra strengthened its organization by appointing a COO (Giuseppe Ferrante), an R&D Coordinator (Vincenzo Fogliano), a Grant & IP Director (Marida Bimonte), a Cell & Molecular Biology Director (Annalisa Tito) and a Marketing & Sales Project Manager (Maura Angelillo). At the end of June 2023, there were 37 employees, including 13 PhDs, 11 with a Master of Science and the remaining with either a Bachelor's degree in Science or a Tech Diploma.

Figure 5: Arterra top management



Source: Company data

Introducing the Middle Management for better Research process transmission In 2023, Arterra introduced a new organizational layer, the Middle management to streamline research and production processes. Within this new organization, research ideas arise from multidisciplinary research units with all processes managed by an internal technical-scientific Committee. This process is constantly on track to catch new opportunities. Every 15 days, the Company takes part to the seminar "Science for Breakfast" on new topics, with the aim to find hints and ideas for the next project.

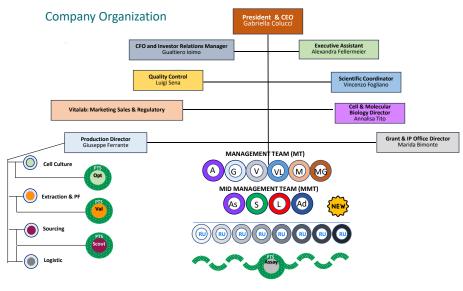
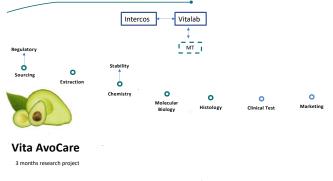


Figure 6: Arterra top management

Source: Company data

Each research unit is market oriented, and the scientific idea must bring to a product or a technology to be either approved or rejected. In Cosmetics, the time to market is between 3-4 months.

Figure 7: Arterra research process - the Vita AvoCare case study



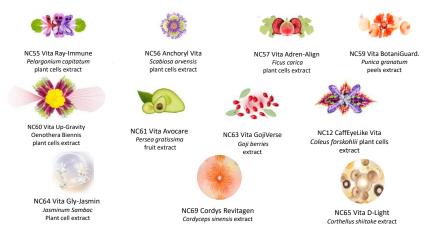
Source: Company data

Focus on: diversifying in Medical Devices and Agri-food while expanding in Cosmetics via Vitalab

 New products in Cosmetics End-market diversification: a new patent in Haircare Diversification in Medical Devices and Agri-Food New proprietary IP During our recent Company Visit in Arterra, the founder and CEO, Gabriella Colucci together with her whole team, led by Vincenzo in the Scientific Committee and Giuseppe as the Head of Production, showed us the in-depth research and production of the two main branches: plant extraction and molecular research. In Cosmetics (skincare and makeup), new products have been launched, including three ingredients specifically addressed to China. In-vitro research, especially on skin and on the intestine, led to new contracts with Food the development of new medical devices for atopic rash and to a new industrial application in Haircare in which a new patent has been filed. Finally, a new potentially disruptive biotech proprietary technology based on the Lactobacillus might lead to innovative compounds in Medical Devices and pharma. 	f t d
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Consolidating in Skincare and makeup Vitalab-Intercos coworking As regards to Cosmetics, Arterra innovated with 11 extracts from plants, fruit and peels, including extracts deriving from i) Oenothera Biennis cell cultures for Cosmetics use; ii) Portulaca grandiflora stem cells for treating skin signs due to skin ageing; iii) Pelargonium capitatum stem cells for Cosmetics use and iv) Cannabis Sativa cell culture for use in Cosmetics, Pharma, and Nutraceutical. Since 2021, Research has been also driven by specific suggestions provided by Vitalab thanks to continuous inputs received from Intercos.

Figure 8: Innovation in Cosmetics - Skincare and Makeup



Source: Company data

A new industrial application: Haircare

More recently and driven by the acquisition of Cosmit by Intercos, Arterra started research for a new industrial application: Haircare. A patent for some active ingredients able at stimulating hair growth has been filed.

Figure 9: Innovation in Cosmetics - Haircare





NC10 Portulaca Vita Portulaca Oleracea Extract



NC57 Anchoryl Vita Opuntia ficus indica cladodes extract + Coffea arabica seed

extract



NC66 RevitaSprout Brassica Oleracea Botrytis Extract

Source: Company data

Medical Devices: Arterra-ADL	Moving into Medical Devices, in April 2021, Arterra signed its first agreement with ADL Farmaceutici for a 5-year production and licence of mix of four active compounds named "ArterraBio Complex I" against skin acne. This first agreement became a stake acquisition when, in June 2021, Arterra subscribed the capital increase by ADL acquiring a 6.81% stake.
Patents in Medical Devices	Arterra and ADL are also working for the development of a product for the treatment of atopic dermatitis, both through topical and oral use.
Arterra-University of Florence	In 2020-2023, two extracts have been patented: olive and prickly pear leaf extract for preventing and treating atopic dermatitis; Punica granatum peels extract for treating viral infections.
Arterra- ABR	Finally, Arterra and ABR (Croda Group) are starting a clinical study for co-development of a valid natural product able to treat the Irritable Bowel Syndrome.



Figure 10: Arterra's diversification into Medical Device

Arterra-MONTECARLOFRUIT

Agrifood:

Arterra continues with research in Agri-food. In June 2021, Arterra and Montecarlofruit signed a research agreement for the up cycling of the mango waste. Montecarlofruit is active in the production of aseptic mango fruit puree for baby food, in Mali. Further development into Nutraceutical is ongoing.

Figure 11: Research agreement Arterra-Montecarlofruit



New proprietary enabling Technology Finally, a new potentially disruptive proprietary enabling technology based might lead to innovative compounds in Agriculture, Medica Devices, Agri-food and even Pharma. It concerns the possibility of expressing in a bacterial system, more common, more "acceptable" and less "dangerous" than currently used E.coli. This can be an alternative tool for synthetic biology and precision fermentation. 3 new proprietary strains have been registered and a patent on genetic elements is almost ready to be filed.



Source: Company data



Source: Company data

Estimates update

2024-2025 estimates fine tuning. Adding 2026E

We fine-tuned our estimates on the back of FY23 results In this report we update our previous 2023-2025 projections *[Company Update on October, the 16th 2023]*, amid FY23 results and added 2026 forecast, according to strategic development and management guidance. As FY23 came in line with our projections and the strategic development has been following its path, we simply fine-tuned our previous estimates.

Cosmetics turnover growth recovery from 2H23. Potentially the best year even in 2024

According to management, last months of 2023 and the beginning of 2024 have showed some signs of recovery mainly from Europe and US where demand for functional make-up had been strongly growing and to a much less extend from China's still slow recovery. We expect this path to continue this year and confirm our 9% 2022-2025E Cosmetics sales CAGR. We also added 2026E and end with a 20% 2023-2026E Cosmetics sales CAGR, including 2024 reaching the best turnover ever above €3.8mln.

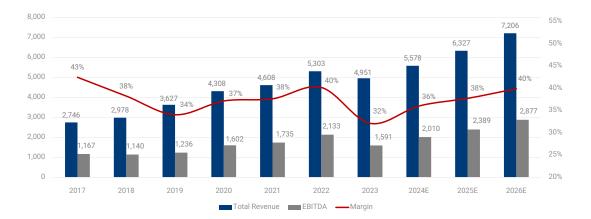


Figure 13: Revenue, EBITDA and margin 2017-2026E

Source: Banca Profilo on Company data

More in details, we target over 18,000 kgs in Cosmetics selling volumes by 2026 and confirm our expectation of no significant contribution to turnover by new end-markets (Medical Devices and Agri-food) before 2026.

Following expected volumes growth, we now project EBITDA margin recovering from 32% in 2023 to 40% in 2026, back to 2022. Raw Materials and Services will reduce their incidence on Total revenues to below 30% in 2026 from their peak at 35% in 2023. Labour cost weight on Total revenues is estimated basically flat at 30% in the three-year period.

Net income marginThe remaining P&L metrics confirm some €200k of yearly dividends from Vitalab, 20% tax rate.back to above 20%Net income is expected to reach €1.7mln in 2026 or 24% margin, basically in line with 2021.

to 40% in 2026E

We confirmed the

ramp up of new-end

markets beyond 2025

EBITDA margin back

October, 13 2023

	2017	2018	2019	2020	2021	2022	2023	2023E	2024E	2024E	2025E	2025E	2026E
€/000	2017	2010	2017	2020	2021	2022	2020	20202	old	new	old	new	new
Cosmetic turnover	1,503	1,868	2,167	2,281	3,253	2,984	2,683	2,677	3,212	3,180	3,855	3,816	4,579
уоу		24%	16%	5%	43%	-8%	-10%	-10%	20%	19%	20%	20%	20%
Nutraceutical/Medical Devices	0	0	0	0	0	0	0	0	0	0	0	0	
Agriculture/Agri-food	0	0	0	0	0	0	0	0	0	0	0	0	
Research contracts and services	551	559	542	541	573	580	621	616	627	669	656	696	72
Licences and royalties	0	0	0	0	0	0	0	0	0	0	0	0	
Fotal turnover	2,054	2,427	2,709	2,822	3,826	3,563	3,304	3,293	3,840	3,849	4,511	4,512	5,29
уоу		18%	12%	4%	36%	-7%	-7%	-8%	29%	17%	17%	17%	175
cosmetic volumes (kg)	5,690	7,142	8,839	9,117	13,342	12,036	10,599	10,555	12,666	12,719	15,200	15,262	18,31
уоу	90%	26%	24%	3%	46%	-10%	-12%	-12%	20%	20%	20%	20%	20%
avg cosmetic price (€/kg)	264	262	245	250	244	248	253	254	254	250	254	250	25
Research grants and stock changes	692	551	917	1,487	783	1,740	1,647	1,320	1,386	1,729	1,455	1,816	1,90
% on sales	25%	18%	25%	35%	17%	33%	33%	29%	27%	31%	24%	29%	26%
Total Revenue	2,746	2,978	3,627	4,309	4,609	5,303	4,951	4,613	5,226	5,578	5,967	6,327	7,20
уоу	45%	8%	22%	19%	7%	15%	-7%	-13%	13%	13%	14%	13%	219
aw materials cost	(210)	(259)	(455)	(525)	(318)	(507)	(425)						
cost of services	(466)	(533)	(726)	(873)	(986)	(1,140)	(1,292)	(1,847)	(1,570)	(1,711)	(1,793)	(1,878)	(2,067
% on total revenue	25%	27%	33%	32%	28%	31%	35%	40%	30%	31%	30%	30%	29
cost of labour	(736)	(847)	(1,025)	(1,128)	(1,228)	(1,391)	(1,476)	(1,446)	(1,522)	(1,690)	(1,598)	(1,893)	(2,096
% on total revenue	27%	28%	28%	26%	27%	26%	30%	31%	29%	30%	27%	30%	29
ease	(123)	(146)	(146)	(151)	(158)	(83)	(82)	(73)	(73)	(82)	(73)	(82)	(82
other operating costs	(43)	(53)	(38)	(30)	(184)	(51)	(85)	(57)	(57)	(85)	(57)	(85)	(85
EBITDA	1,167	1,140	1,236	1,602	1,736	2,133	1,591	1,190	2,003	2,010	2,446	2,389	2,877
margin	43%	38%	34%	37%	38%	40%	32%	26%	38%	36%	41%	38%	40%
# employees	n.a.	20	28	30	35	36	34	38	40	36	42	38	4
abor cost per unit		(42)	(37)	(38)	(35)	(39)	(43)	(38)	(38)	(47)	(38)	(50)	(52
A80	(143)	(73)	(296)	(400)	(487)	(532)	(532)	(560)	(645)	(602)	(770)	(712)	(812
% on total revenue	5%	2%	8%	9%	11%	10%	11%	12%	12%	11%	13%	11%	115
BIT	1,024	1,067	940	1,201	1,249	1,601	1,059	630	1,358	1,408	1,676	1,677	2,06
margin	37%	36%	26%	28%	27%	30%	21%	14%	26%	25%	28%	27%	29%
iet financial income (expenses)	(7)	6	1	(2)	26	197	83	21	23	72	27	81	9
% on total revenue	-0.2%	0.2%	0.0%	0.0%	0.6%	3.7%	1.7%	0.5%	0.4%	1.3%	0.4%	1.3%	1.39
BT	1,017	1,073	941	1,199	1,274	1,797	1,142	651	1,381	1,480	1,702	1,758	2,15
margin	37%	36%	26%	28%	, 28%	34%	23%	14%	26%	27%	29%	28%	30
axes	(272)	(29)	(83)	(91)	(163)	(383)	(226)	(139)	(295)	(296)	(363)	(352)	(43)
tax rate	27%	3%	9%	8%	13%	21%	20%	21%	21%	20%	21%	20%	20
Net income	745	1,044	857	1,109	1,111	1,414	916	512	1,087	1,184	1,339	1,407	1,72
		.,		.,	.,	.,	2.0		.,	.,	.,	.,,	.,

Table 4: P&L estimates fine-tuning 2024-2026

Source: Banca Profilo estimates and Company data

volumes; turnover at more than €3.8mln

More in details, in 2024 we expect more than 12.5kg of selling volumes in Cosmetics or +20% 2024: +20% selling yoy at an average unit price of €250. We add €670k of Research contracts and services turnover and some €1.7mln of research grants, ending with €5.5mln Total revenue or +13% yoy. This compares to €5.2mln previously projected. Thanks to lower costs of Raw Materials and Services and stable incidence of Labour costs we project EBITDA to improve to 36%.

Regarding the Balance Sheet estimates for 2024-2026, we confirm: i) cumulated capex at Balance Sheet: €1.6mln including those needed for production plant expansion and equipment improvement Capex in 2024; and ii) further improvement of Net Working Capital turnover as inventories return to NWC optimization their normalized levels. We kept a generous dividend distribution (some 50% of consolidated Generous dividend net income) for the next three years in line with 2023. distribution

Balance Sheet													
	2017	2018	2019	2020	2021	2022	2023E	2023	2024E	2024E	2025E	2025E	2026E
€/000	2017	2010	2017	2020	2021	LULL	LOLOL	2020	old	new	old	new	new
tangibles	185	567	1278	1400	1662	1535	1232	1177	1,336	1230	1,170	1024	72
intangibles	27	108	706	567	442	204	40	102	48	40	(56)	34	1
financials	462	452	452	452	949	982	982	982	982	982	982	982	98
Fixed assets	675	1,127	2,437	2,419	3,052	2,722	2,254	2,261	2,366	2,252	2,096	2,040	1,72
other current net receivables	131	177	452	912	914	227	869	227	227	869	227	869	86
receivables from grants	1,176	1,062	495	585	755	905	816	687	693	805	699	845	86
trade receivables	303	630	414	339	806	774	695	817	1,135	1,117	1,295	1,267	1,44
inventories	263	267	425	570	488	1,157	1,356	1,007	983	1,304	944	1,416	1,54
trade paybles	(161)	(257)	(500)	(188)	(250)	(188)	(250)	(211)	(179)	(300)	(204)	(292)	(300
Net operating Working Capital	1,582	1,702	834	1,306	1,798	2,648	2,617	2,300	2,632	2,926	2,733	3,237	3,55
% on total revenue	58%	57%	23%	30%	39%	50%	53%	50%	50%	52%	46%	51%	49%
receivables from grants (% grants)	170%	193%	54%	39%	96%	52%	50%	52%	50%	47%	48%	47%	46%
trade receivables (% revenue)	11%	21%	11%	8%	17%	15%	14%	18%	22%	20%	22%	20%	20%
inventories (% revenue)	10%	9%	12%	13%	11%	22%	27%	22%	19%	23%	16%	22%	219
trade paybles (% COGS)	24%	32%	42%	13%	19%	11%	15%	11%	11%	18%	11%	16%	15%
Capex	50	536	1,897	383	609	184	100	100	750	600	500	500	50
tangible	28	447	1143	342	541	179	90	90	675	540	450	435	43
intangibles	22	89	754	40	68	5	10	10	75	60	50	65	6
% on total revenue	2%	18%	52%	9%	13%	3%	2%	2%	14%	11%	8%	8%	79
Provisions	(629)	(630)	(504)	(522)	(522)	(522)	(522)	(522)	(632)	(632)	(522)	(522)	(522
Invested Capital	1,757	2,375	3,218	4,115	5,241	5,075	5,217	4,266	4,593	5,414	4,534	5,623	5,62
	.,	_,	-,	-,	-,	-,	-,	-,	.,	-,	.,	-,	-,
shareholders' equity	250	250	327	330	333	333	333	333	333	333	333	333	33
reserves	720	1,265	5,926	6,742	8,029	8,720	9,343	9,468	9,739	9,912	10,314	10,539	11,28
net income	745	1,044	857	1,108	1,111	1,414	1,076	512	1,087	1,184	1,339	1,406	1,72
Equity	1,715	2,559	7,110	8,181	9,473	10,467	10,752	10,313	11,159	11,429	11,986	12,278	13,34
Net debt (cash)	42	(185)	(3,892)	(4,066)	(4,232)	(5,392)	(5,535)	(6,047)	(6,565)	(6,015)	(7,451)	(6,656)	(7,717

Table 5: Balance Sheet estimates fine-tuning 2024-2026

Source: Banca Profilo estimates and Company data

Net cash €3.7mln in 2024E-2026E Cumulated Free Cash Flows are projected at €3.7mln in 2024-2026, including some €1.6mln capex for new spaces and production equipment for plant and offices reorganization and optimization.

Table 6: Free Cash Flows estimates fine tuning 2024-2026

Free Cash Flows														
		2017	2018	2019	2020	2021	2022	2023E	2023	2024E	2024E	2025E	2025E	2026E
	€/000	2017	2010	2019	2020	2021	2022	ZUZGE	2023	old	new	old	new	new
EBIT		1,024	1,067	940	1,201	1,249	1,601	1,059	630	1,358	1,408	1,676	1,677	2,065
tax (figurative)		(205)	(213)	(188)	(240)	(250)	(320)	(212)	(126)	(272)	(282)	(335)	(335)	(413)
D&A		143	73	296	400	487	532	532	560	645	602	770	712	812
change in Net Working Capital		(219)	(120)	868	(472)	(492)	(850)	31	348	(332)	(309)	(101)	(310)	(315)
capex		(50)	(536)	(1,153)	(383)	(609)	(184)	(100)	(100)	(750)	(600)	(500)	(500)	(500)
Free Cash Flow		693	270	763	507	385	779	1,311	1,312	649	819	1,510	1,244	1,649

Source: Banca Profilo estimates and Company data

Main risks to our estimates

Main downside risk to our estimates remains Arterra's effective capacity to reach a relevant scale in new end-markets. We also see the lack of net cash optimization with persisting cumulating cash and reduced capex. And finally, we are projecting a sustainable recovery starting this year; this has to be confirmed by 1Q24 results which are scheduled to be disclosed on May the 6th.

approach.

valuation using market multiples.

Valuation

DCF approach well appraises Arterra cash generating business

Market multiples approach can also be used

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DCF assumptions:	To run a DCF model, we use our projected FCFs for the 2024E-26E explicit period: cumulated
	FCFs of €3.7mln (vs previous €3.4mln) or €1.2mln (vs previous €1.1mln) as yearly average in
€3.7mln of	2024E-2026E. [Company Update on October, 16th 2023].
cumulated FCFs	To assess the Terminal Value, we factor in:
	• an annual FCF generation of ≤ 1.2 mln, corresponding to the average FCF in 2024E-2026E;
61 Oralia de Terreiral	 perpetual growth rate of 2% (unchanged).
€1.2mln as Terminal	

€1.2min as Terminal Value cash flow To get to the Equity Valuation, we would consider the reported net cash at the end of December 2023 at ≤ 5.7 mln (≤ 5.5 mln as of June 2023 in our previous Company Update).

Given Arterra's cash generating business model, a DCF method well adapts as a valuation

For what concerns the market multiples approach, the listed international research-based

companies represent a fitting panel of comparables for suggesting an appropriate relative

Table 7: DCF valuation

DCF Valuation	2024E	2025E	2026E	over
Free Cash Flows (€/000)	819	1,243	1,649	1,237
years	1	2	3	
discount factor	0.92	0.85	0.78	
NPV Cash flows (€/000)	753	1,051	1,282	
Sum of NPVs (€/000)				3,086
Terminal Value (€/000)				18,308
NPV Terminal Value (€/000)				15,478
Enterprise Value (€/000)				18,564
peripheral assets: Vitalab (@40%)				2,303
Net debt December 2023 (€/000)				-5,672
Equity Value (€/000)				26,539
number of shares (mln)				6.7
Per share value (€)				4.0

Source: Banca Profilo estimates and Company data

Updated WACC at 8.8% according to expectations on interest rates path We adjusted WACC to include updates on the risk-free rate and ended up with 8.8% (vs previous 8.7%).

WACC includes:

- risk free rate at 4.4%, down from previous 5.2%, according to 100-day 30-year BTP yield moving average and to the expected path of BCE monetary easing policy.
- market risk premium at 5.5% (unchanged);
- beta at 1.1 (vs previous 0.9), as the average of chosen listed peers to Arterra;
- debt to equity target structure with an 80% weight on Equity (unchanged).

Table 8: WACC calculation

WACC Calculation	
perpetual growth rate	2.0%
WACC	8.8%
risk free rate (30Y)	4.4%
equity risk premium	5.5%
beta	1.1
KE	10.7%
cost of debt	1%
tax rate	20%
KD	1%

Source: Banca Profilo estimates and Company data

DCF Equity valuation: €26mln

We run the DCF model and end up with an Enterprise Value of €18.6mln (vs previous €16mln) and an Equity Value of €26.5mln (vs previous €24mln) or €4/share (vs previous €3.6). Main difference from our previous Company update derives from: i) higher cumulated FCFs (+9%); ii) higher Terminal Value FCF (+9%); iv) marginally higher WACC.

Relative market multiples valuation

EV/SALES and EV/EBITDA used to assess the market multiples valuation of Arterra according to two selected sub-samples To assess a relative valuation of Arterra through the market multiples approach, we divided our panel of comparables in to two set of peers:

- a first sub-sample of Arterra's peers, mostly by business and potential growth, but with negative EBITDA margin, including BRAIN, Fermentalg, Plant Advanced Technologies, Codexis and Yield10 Bioscience;
- a second sub-sample of Aterra's peers, mainly by margins and cash flow generation, including Croda, Symrise, Novozymes, Lonza, Ashland, OCI and Wacker Chemie.

Company	Currency		Enterprise Value (mln)		Sales growth								EBITDA margin						
19/04/2024				2018	2019	2020	2021	2022	2023	2024E	2025E	2018	2019	2020	2021	2022	2023	2024E	2025E
BRAIN	EUR	62	87	22.6%	24.8%	-0.5%	7.6%	23.7%	11.7%	12.3%	13.1%	-16.7%	-7.3%	-9.1%	-4.2%	0.1%	1.6%	6.2%	13.8%
Croda	GBP	6,809	7,355	1.0%	-0.7%	0.9%	35.9%	10.6%	-18.9%	2.0%	6.4%	28.5%	28.8%	27.9%	29.0%	28.8%	24.2%	22.6%	24.8%
Symrise	EUR	14,732	16,938	5.3%	8.0%	3.3%	8.7%	20.7%	2.4%	4.2%	6.1%	20.0%	20.3%	21.1%	21.3%	20.0%	19.1%	20.3%	21.0%
Fermentalg	EUR	32	37	-46.6%	n.m.	16.3%	155.3%	35.1%	-46.1%	139.0%	64.3%	-3002.0%	-501.9%	-306.3%	-103.6%	-76.3%	-190.2%	-69.4%	-27.3%
Plant Advanced Technologies	EUR	11	17	37.5%	9.1%	4.7%	83.1%	0.0%	30.4%	-13.3%	53.8%	-218.2%	-91.7%	-47.8%	-37.0%	-34.8%	-26.7%	0.0%	17.5%
Novozymes	DKK	160,433	173,203	-1.0%	-0.1%	-2.5%	6.7%	17.4%	2.0%	63.5%	6.3%	35.8%	36.7%	35.1%	36.3%	34.6%	40.9%	33.1%	34.2%
Codexis	USD	199	140	21.1%	13.0%	0.9%	51.7%	32.3%	-49.4%	-3.5%	-9.0%	-3.8%	-10.8%	-31.8%	-18.6%	-13.3%	-68.5%	-52.3%	-67.4%
Yield10 Bioscience	USD	4	5	-38.2%	45.0%	-0.9%	-23.2%	-26.7%	-86.7%	3650.0%	77.8%	-1508.0%	-1026.8%	-1175.5%	-1811.6%	-2930.7%	-22218.3%	-458.8%	-273.8%
Lonza Group	CH	37,443	38,636	8.6%	6.8%	4.5%	-12.5%	14.6%	8.3%	-0.9%	13.3%	27.3%	26.8%	22.7%	30.8%	32.2%	29.8%	27.4%	28.9%
Ashland	USA	4,809	5,742	1.4%	-28.4%	-4.6%	1.7%	-1.7%	-6.4%	1.6%	5.3%	18.8%	21.6%	22.2%	21.8%	23.8%	21.1%	22.3%	24.6%
OCI NV	NL	5,237	9,528	56.3%	-2.6%	1.8%	95.2%	64.0%	-48.5%	4.8%	5.2%	28.6%	22.8%	24.0%	40.1%	40.1%	24.2%	29.0%	29.2%
Wacker Chemie AG	DE	5,719	6,374	1.2%	-1.0%	-4.8%	32.3%	32.2%	-22.0%	-2.7%	6.9%	18.7%	15.8%	14.2%	24.8%	25.3%	12.9%	12.7%	15.6%
Median best peers				21.1%	18.9%	0.9%	51.7%	23.7%	-46.1%	12.3%	53.8%	27.3%	22.8%	22.7%	29.0%	28.8%	24.2%	22.6%	24.8%
Arterra	ITA	12.1	8.8	8.4%	21.8%	18.8%	7.0%	15.1%	-6.6%	12.7%	13.4%	38.3%	34.1%	37.2%	37.7%	40.2%	32.1%	36.0%	37.8%

Table 9: Sample benchmarking on revenue growth and EBITDA margin

Source: Banca Profilo estimates and elaborations on Factset

EV/SALES: 2.9x up from 2.4xConsistently with our sample split up, we use EV/SALES 2024E at 3.4x and 2025E at 2.5x,
on average higher than our previous EV/SALES 2023E at 2.4x of the first sub-sample and
EV/EBITDA 2024E at 14.4x and 2025E at 12.6x on average higher than EV/EBITDA 2023E
at 10.8x we used in our previous research [*Company Update on October, the 16th 2023*].
Arterra trades 50% below the first sub-sample mean and 70% on the second sub-sample,
despite better revenue performance and higher EBITDA margin compared to its peers'
average.

Company	EV /	Sales	
19/04/2024	2024E	2025E	
BRAIN	1.4x	1.2x	
Croda	4.3x	4.0x	
Symrise	3.4x	3.2x	
Fermentalg	3.7x	2.3x	
Plant Advanced Technologies	6.4x	4.2x	
Novozymes	5.9x	5.6x	
Codexis	2.1x	2.3x	
Yield10 Bioscience	2.2x	1.3x	
Lonza Group			
Ashland			
OCI NV			
Wacker Chemie AG			
Mean best peers	3.4x	2.5x	
Arterra	1.6x	1.4x	
premium (discount) on best peers	-54%	-44%	

Table 10: Market multiples

Source: Banca Profilo estimates and elaborations on Factset

Market multiples significant rerating in the past six months

Over the past year, our Sample's market multiples have significantly rose in terms of EV/EBITDA 1Y-forward. Since our October report the EV/Sales 1y-forward has moved from 2.4x to 3.4x and EV/EBITDA 1Y-forward from 10.8x to 14.4x.





Source: Banca Profilo elaborations, Bloomberg

EV/SALES and EV/EBITDA used to assess the market multiples valuation of Arterra according to two selected sub-samples Market multiples valuation includes a 15% liquidity discount and an Equity valuation of Vitalab (at 40% stake) on the mean EV/SALES 2024E at 3.4x on its lastly known sales 2022, leading to a value of \leq 2.3mln (vs previous \leq 2.2). We end up with an Equity Value of \leq 26mln (vs previous \leq 18)

Table 11: Market multiples valuation

· · · · · · · · · · · · · · · · · · ·	aluation of	i market n	nultiples (€/000)		
Arterra on EV/SALES (business + growth)	2024E	2025E	Arterra on EV/EBITDA (margins + cash flow generation)	2024E	2025E
EV/Sales best peers	3.4x	2.5x	EV/EBITDA best peers	14.4x	12.6x
sales	5,578	6,327	EBITDA	2,010	2,389
net debt December 2023			-5,672		
EV	18,962	15,713	EV	29,008	30,018
Equity Value	24,633	21,385	Equity Value	34,680	35,689
Average Equity Value	23,009			35,185	
Vitalab (@ 40%) on EV/SALES	2024				
EV/Sales	3.4x				
sales 2023E	1,694				
net debt (adj)					

EV	5,757								
Equity	5,757								
(40% stake)	2,303								
Arterra (including Vitalab @40%)	2023E	Arterra (including Vitalab @40%)	2023E						
liquidity discount	15%	15%							
	21,515	31,864							
Average 2022E EV/SALES - EV/EBITDA									
26	5,690								

Source: Banca Profilo estimates, Factset

Despite the Equity Valuation deriving from DCF, but mostly from market multiples is higher than our previous Company Update in October, we confirm our 12-month target price at \leq 3.2/share.

We clearly need to have more confidence in 2024 effective and sustainable growth recovery before stepping up Arterra valuation.

Furthermore, recent market-multiples significant re-rating must be much more reliable before supporting a new higher 12-month price target.

Given the relevant potential upside on Arterra's price, we confirm our BUY recommendation.

Valuation: BUY confirmed 12-month TP confirmed at €3.2/share

APPENDIX

Biotech serving the irreversible trend of product sustainability

Arterra: know-how in biological science to develop active innovative and green compounds Arterra Bioscience is an Italian, innovative SME, research-based biotech company with a strong know-how in biological science and an extensive experience in screening for the discovery of new active compounds with potential multiple industrial applications, such in Cosmetics, Nutraceutical, Agriculture and Agri-food. By studying signal transduction mechanisms in plants, animals and human cells, Arterra uses its technological platforms to verify the existence of molecular activity in various type of natural resources, which might have simultaneous industrial applications.



Figure 15: Biotech sources of research and fields of application

Source: Company Data

Arterra: strong knowhow and experience for simplifying needs of many industries in the persisting search for clean substitutes to chemicals Arterra's research activity is focused on the so-called Green Biotech (from plants and agricultural processes to innovative active ingredients) and White Biotech (from raw materials to valuable compounds). Other Biotech source of research are: the sea and its organism (Blue Biotech) and genetics (Red Biotech). Arterra also uses algae and microalgae in the Blue Biotech, whereas from Red Biotech it acquires data on genetics and drug discovery and uses them for potential innovation and discovery addressable to other needing sectors. Arterra's main areas of activity are: technological screening platforms; plants and cellular farming to brew or modify in order to obtain rich molecules; process innovation mostly in the extraction phases.

Arterra's bio factories and biomass production have applications in various fields simultaneously: the Company's core and current end market is Cosmetics, whereas new and potential sectors are Nutraceuticals, functional food and Agri-food processing

Arterra: ready to serve the most active sectors in the global trend to sustainability.

Ongoing research projects on rich The global industry is in an irreversible trend of finding ways to sustainable products and processes. Arterra is ready to serve the most active sectors in this global trend, through both its innovative technologies and its range of bio-sustainable active ingredients that can be applied not only to various end-markets but also to different segments in the same sector (from mass green to prestige luxury products, mostly in Skincare).

biomolecules for application in:	The most active market is Cosmetics, Arterra's core end-market, followed by Pharmaceutical, Nutraceutical, Agriculture and Agri-food.
Medical Devices Nutraceutical Agriculture Agri-food	The Pharmaceutical industry is investing in new applications using natural ingredients which are easier to be absorbed by the organism. Arterra has several ongoing research projects to find ways to add natural ingredients in the recipes of different Medical Devices (as any product that acts physically and mechanically, not biologically), mostly treatments addressed to the gastrointestinal, respiratory, and nervous systems.
	The Nutraceutical industry is experiencing a growing demand of food supplements to add to one's diet, when lacking some key nutrients. Arterra is developing methods to enhance quality and concentration of natural ingredients to be added to food supplements based on solid research, effective screening, and robust tests.
	Agriculture is gradually shifting towards sustainability as consumers are increasing their attention towards organic food and key players are introducing sustainable techniques for producing and protecting crops in place of chemical pesticides and fertilizers. Arterra is developing tools to enhance the use of bio solutions for pest control, for protecting the plants from climate stress, for quality improvement.
	In the Agri-food industry there is a strong and increasing interest for natural food preservatives and additives as consumers' attention on both the production and conservation of food has been significantly increasing. Main players have begun investing in biological molecules that can act as natural preservatives or colouring. Arterra is working on various active ingredients acting as antioxidant to be used for natural preservation of fresh food.
Arterra's core end- market: Cosmetics	Cosmetics is Arterra's core end-market, reached both through a partnership agreement with Intercos, which buys Arterra's active compounds and put them into its formulas, (mostly sold to make-up and skincare global brands of various positioning, from mass, to private label to prestige brands), and an equity co-participation in the joint venture Vitalab (25% Arterra and 75% Intercos), which distributes Arterra's active ingredients mostly to skincare multinational global and luxury global brands. In 2022, the turnover coming from Cosmetics (skincare) was 60% of revenue, the remaining coming from Research contracts and other Services.
High productivity and quick time to market of the active compounds in skincare	The productivity of the active compounds used in Skincare is particularly high: 1kg of active compound produces from 200kg (in the suggested formulas) to 1000kg of final product (if used for mass market/marketing purposes). The time to market in Cosmetics is shorter than in other end markets: from 3 to 6 new active ingredients have been released every year, which compares to 3 to 5 years in Agriculture, as an example.

Arterra : overview and business model

History, overview and activities

Founded in 2004 by Gabriella Colucci in Naples, as a spin-off of Arena Pharma Biology division (San Diego, USA). A key partner for bio innovation to various end-markets Arterra Bioscience was founded in 2004 in Naples by Gabriella Colucci, an Italian Scientist who returned to Italy after more than four years as Senior Research Scientist at Arena Pharmaceuticals (a listed company on NASDAQ), leading the Plant Biology Team. Arterra is a spin-off of Arena Pharmaceuticals from which it took the biotechnology developed by Ms. Colucci during the years spent in the US Company. Arterra has started bio research for industrial applications more than 15 years ago, anticipating an urgent need, a mandatory and irreversible global trend today. Other than being Ms. Colucci native city, Naples has been chosen as Arterra's headquarter for: i) its competitive R&D costs (including labour, leasing, transportation, and utilities); ii) being in the South and thus having an easier access to substantial support by the EU funds for Bioscience research; iii) the local presence of accredited universities and Research Centers from which highly qualified scientists come out.

From a small research group to a profitable biotech company At the beginning of its activity, in 2004, Arterra's main sources of revenue were the research grants from public institutions (Regione Campania, MISE, MIUR and the European Union). In 2005, Isagro invested a 22% stake in Arterra and became financing the bio research for innovation in Agriculture. Arterra's first patent was in this field, but immediately the Company discovered its perfect fit and application to Cosmetics. In 2007, research grants contributed for about 55% and research contracts for less than 20% of total revenue. Starting from 2008, both the agreement with Intercos for developing new active compounds for skincare and the setting up of the joint venture, Vitalab, for the distribution to clients different from Intercos', marked the shifting of revenue from mainly public research grants to research contracts.

In 2022, turnover for the selling of active compounds contributed for almost 60% of Total Revenue, that for research contracts weighed 11% and public grants 33%. Starting from 2017, the bio facility was extended and further developed and Arterra started the production of new active bio ingredients for different end-markets, thanks to a new process patent with multiple industrial applications. Starting from the second half of 2019, a first round of significant investments, using IPO proceeds, have been made for doubling production capacity and optimizing production processes. Moreover, the organizational structure has been strengthened appointing: an R&D coordinator (V. Fogliano), a Chief Operating Officer (G. Ferrante), a Grant & IP Director (M. Bimonte), a Cell & Molecular Biology Director (A. Tito) and a business developer (B. Cicatiello).





Source: Company Data

Research and technology to get active ingredients from food and agriculture waste. Plant extraction and Agri-food byproducts in-house.

From 1kg of raw materials to >5kgs of active ingredients and up to 1000kgs of skincare finished goods

Profitability and production capacity are main reasons to choose between Supported by an excellent research and tech team (most of them hold a Phd in Biology, Biotech, LifeScience or Genetics) and by the long experience and endless passion of Gabriella Colucci, Arterra uses cells from plants or algae as bio-factories to extract and produce, through sustainable procedures, active and valuable molecules (Plants Extraction production process). Typically, from 1kg of raw materials the transformation process can obtain more than 5kgs of finished product. Moreover, Arterra uses waste from food and agriculture to search for and develop new active ingredients (Agri-food by-products production process). The Agri-food byproducts in-house transformation and production process to get to active compounds from food and agriculture waste includes: Agri-food-by-products, washing and freezing phases, extraction, lyophilization, and dissolution in glycerol. Typically, from 1kg of raw materials the upcycling transformation process can obtain about 10kgs of finished product (creating value from food waste, much more than simply recycling food waste). Furthermore, depending on the quantity of active compounds used in the products formulas (skincare products, in Cosmetics, for example), 1kg of active compounds can lead to 200kgs (luxury, prestige skincare product) up to 1000kgs of finished goods (mass market, marketing-based skincare product).

To summarize, Arterra's revenue come from different sources: research grants, research contracts, product selling and licencing royalties.

product Production or IP Licencing Active compounds might be either produced and sold or their related in-house Intellectual Property (IP) might be licenced out. The decision depends on end-market applications. Typically, Cosmetics is a high-tech industry, made of small volumes, but very high margins; thus, it can be well served with Arterra's ingredients. Opposite, Agriculture is typically made of large volumes, low margins, and a very long time to market; it can be well served by Arterra's lps licencing.

Moreover, in terms of time to market, in Cosmetics this is much quicker than in any other industry: 3 to 6 new active compounds are introduced every year in Cosmetics, whereas in Agriculture the time for a new active ingredient to land on the market can range from 3 to 5 years.



Figure 17: Arterra's reach of global brands in Cosmetics

Key partnerships: Isagro and Intercos In Agriculture, Arterra has been selected by Isagro, that in 2005, invested directly a 22% stake, which went down to 16.5% after the IPO. Isagro has become the right channel for the licencing of Arterra's patented technology in Agrochemical. However, so far, no significant bio-solutions have been applied to Agriculture. In 2020 Isagro was acquired by Gowan, a worldwide provider of agricultural products and in Aplir 2022 Isagro disposed the whole stake increasing Arterra floating shares.

In Cosmetics, Arterra has been selected by Intercos as its research partner and preferred supplier of innovative active ingredients to be applied especially in skincare. According to their agreement, Arterra has a research contract with Vitalab worth more than €500k to develop three active ingredients every year; in the first year Intercos has the exclusive right to use the active ingredient in its products; starting from the second year the active compound is commercialized through Vitalab. Intercos owns an 8.7% of Arterra.

The distribution in Cosmetics is demanded to Intercos and Vitalab. Clients range from

multinational to SME, from mass to prestige skincare or make up brands Intercos and Arterra founded the commercial joint venture, Vitalab, with the purpose to distribute Arterra's active compounds into the global cosmetic market. Arterra owns 25% of Vitalab with a call option up to 40%, whereas Intercos owns the remaining 75%. According to their agreement, Arterra's ingredients for Cosmetics products are sold through either Intercos or Vitalab, which interact directly with global brands. Thanks to this agreement, Arterra can reach multinational global and prestige brands, make-up and skincare brands having a mass to private labelled to luxury positioning thanks to multiple and democratic applications of Arterra's valuable molecules. In 2019, Arterra core Cosmetics end-market weighted 60% of total turnover and Intercos' contribution was over 80%. Vitalab significantly increased its contribution from €1.3mln in 2019 to almost €3mln in 2021.

Figure 18: Arterra with Intercos and Vitalab in Cosmetics

Source: Banca Profilo on Company data



Source: Company data

A scalable and profitable business model

Biomass production is a replicable and a low cost process allowing outstanding yields Arterra's business model is scalable: R&D activity is for either production and sales of active ingredients (through Intercoss and Vitalab) or for licensing to third parties in-house developed Intellectual Property (IP) to be applied simultaneously to different end markets and positioning (cross sector, cross technology and from mass to luxury products). Applications vary from the anti-age compounds in Cosmetics, to natural pesticides in Agriculture to natural preservatives in fresh Aood to a bio gastrointestinal defender in Medical Devices. The business model is profitable as biomass production to get innovative active ingredients is a very low-cost process. Bio-factories allow for outstanding yields with relatively limited expenses and investments. Typically, from 1kg of plant stem cells, Arterra's bio farms produce more than 5kgs of active compound, via cells reproduction, that can be sold in a range of 4x to 10x the cost of raw materials. In the same way, from 1kg of Agri-food by-products Arterra's bio farms can typically develop about 10kgs of active ingredients that can be sold between 20x and 50x the cost of raw materials.

Figure 19: Profitable and scalable business model



Source: Company Data

In addition, the distribution phase of the value chain and the reach of global brands, mainly in Cosmetics, is set on a win-win partnership with Intercos and through an equity participation (together with Intercos) in the commercial joint venture Vitalab.

No investment in sales force is made with the focus on research and tech scientists.

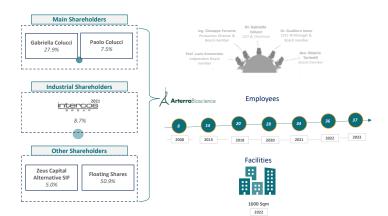
Shareholders, Board of Directors and managers: long experience and sounded know-how

Listed in 2019 at €2.6	The Company was listed on the Euronext Growth segment of the Italian Stock Exchange on October the 28th 2019 at €2.6/share. The share capital is represented by 6.6mln shares.
€6.6mIn shares 50% floating following the exit of Isagro	 The Company is owned by: executive shareholders, the founder Gabriella Colucci with 27.9%, industrial shareholders, Isagro sold its 16.5% stake in April 2022, but it remained co-owner in ADL (Arterra with 6.81%; G.Basile with 34.63%), Intercos with 8.7%, partner in Cosmetics and co-owner in Vitalab;
	 other shareholders, Gabriella Colucci's brother Paolo Colucci with 7.5%; Zeus Capital with 5%; Floating shares are then 50.9% of the total.
Gabriella Colucci: Founder, Chairman	Arterra's founder, Gabriella Colucci built more than 30 years of Academic research experience in Italy, Nigeria, USA and Australia. She is the author of more than 40 scientific publications and 18 patents. She worked for more than 4 years in San Diego as Senior Research Scientist

and CEO

A rare mastermind leaving US and returning to Italy at Arena Pharmaceuticals, leading the Plant Biology group. In 2003, she left San Diego and returned to its native Naples, where she founded Arterra Bioscience, as a spin-off of Arena Pharmaceuticals. She won the Marisa Bellisario Prize, the EU Prize for Women Innovations in 2018 and the Rising Star in Cosmetics Global in 2019.

Figure 20: Arterra shareholders and BoD



Source: Company Data

The Board of Directors Gabriella Colucci (founder, Chair and CEO), Gualtiero Ioimo (CFO, IR Manager) and Giuseppe Ferrante (Production Director) sit in the Board of Directors of Arterra which also includes the lawyer Vittorio Turinetti and Prof. Lucio Annunziato, as independent board members.

Key partnerships: Isagro, Intercos and Vitalab In 2005, Isagro acquired a 22% of Arterra to partner for research-based bio innovation in Agriculture. In 2008, Arterra signed an agreement with Intercos and became its biotech research arm in Cosmetics. Arterra develops 3 active compounds every year in either Skincare or Make up. The active ingredients are bought by Intercos that has the exclusive use for the first year; thereafter, the same ingredients are distributed globally through the joint venture Vitalab (25% owned by Arterra - with an option to go up to 40% and with the right to receive 40% of Vitalab's distributed income - and the remaining by Intercos). In 2019, through the IPO process, Intercos became a shareholder in Arterra.

ESG analysis

Sustainability report

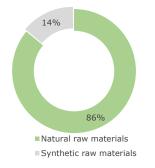
ESG and the	Every active investor seeking value should be aware of how companies deal with environment,
Sustainability of	social and governance issues, since these are factors that can improve corporate value. In a
Competitive	world where companies are increasingly facing environmental issues, such as climate change
Advantage	and pollution, as well as social factors such as diversity and inclusion, gender balance and
	product safety, attention to ESG issues has become a competitive advantage.
Arterra: second	To best involve stakeholders and to communicate in an increasingly transparent way its ESG
Sustainability Report	goals, Arterra published its Sustainability Report in 2021 in accordance with both GRI and
in 2021	SDGs standards.

Sustainability for Arterra

Arterra, a biological and molecular R&D company applied to cells of natural origin Beyond sustainability standards and goals, Arterra naturally generates positive externalities with its core activities. In fact, the Company operates in the Research and Development of biological molecules to extract innovative active ingredients mainly for Cosmetics, but with potential applications in Agriculture, Nutraceuticals and Pharmaceutical. Arterra has always focused on green biotechnologies as a tool for sustainable innovation and a potential boost to the circular economy. The Company develops sustainable products, such as active ingredients from plant-based raw material and uses certified sustainable production processes.

Arterra is leader in the biological and molecular research on plant-based raw materials Arterra's main production process consists of the processing of raw materials in liquid culture, a process free of any type of microbiological contaminant or environmental pollutant. Raw materials are on average 86% natural, the remaining being synthetic. To increase the incidence of natural raw materials and seek constant innovation, Arterra has recently launched a project in collaboration with Montecarlo Fruit, a supplier of quality fruit and vegetables on a global scale, for producing active ingredients from fruit waste.

Figure 21: Raw materials breakdown between natural and synthetic ones



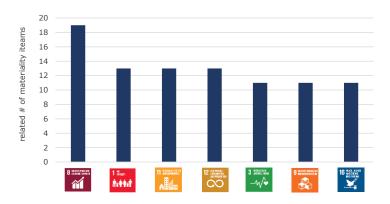
Source: Banca Profilo on Company data

Materiality assessment Arterra carried out a Materiality Assessment to identify priority sustainability disclosure items, set most relevant issues for the Company and its stakeholders, and finally to decide which issues should be included (and updated) in the Report.

SDGs vs corporate goals: n. 8, 1, 11, and 12 are those Arterra is more sensitive to By relating the material topics identified through the Materiality Map to the seventeen Sustainable Development Goals (SDGs), it emerges that SDGs 8, 1, 11, and 12 are the most sensitive ones for Arterra.

- Goal 8 promotes inclusive and sustainable economic growth as well as decent work for all. This goal is particularly sensitive for the Company as Arterra guarantees higher levels of economic productivity mainly through technological upgrading and R&D, promotes development-oriented policies that support productive activities, decent job creation, creativity, and innovation. Moreover, Arterra particularly cares to progressively improve global resource efficiency in production and responsibly select suppliers.
- Goal 1 promotes to end poverty in all its forms everywhere. Arterra promotes this goal mainly by implementing appropriate social protection systems and granting equal rights to economic resources.
- Goal 11 makes cities and human settlements inclusive, safe, resilient, and sustainable. Arterra promotes this goal mainly thanks to the strong connection with the Neapolitan and Campania territory, from which Arterra obtains natural raw materials used in its processes. Arterra is also promoter of Est(ra)Moenia, an association aimed at implementing projects that enhance the Naples surrounding areas and East Naples.
- Goal 12 ensures sustainable consumption and production patterns. Arterra promotes this goal by achieving the sustainable management and efficient use of natural resources and the sound management of chemicals and all wastes throughout their life cycle.

Figure 22: Raw materials breakdown between natural and synthetic ones



Source: Banca Profilo on Company data

5			
Arterra	Recommendation	Target Price	Upside
"ID Card"	BUY	3.2 €	77%

Company Overview

Arterra Bioscience is an Italian research-based biotech company with a strong know-how in biological science and an extensive experience in screening for the discovery of new active compounds able to have various potential industrial applications in multiple end markets, such as cosmetics, nutraceutical, agriculture and agrifood. By studying signal transduction mechanisms in plants, animals and human cells, Arterra uses its technological platforms to verify the existence of molecular activity in various type of natural resources (from plants, to microalgae to food waste), which might have simultaneous industrial applications. Arterra, thus, represents an ideal partner to cross-sector companies who have not the financial or cultural strength to develop innovative technologies and bio-sustainable products, mainly in cosmetics (skin care and make up), food (supplements, functional food, natural preservatives), medical devices (acting on stomach, skin, brain, breathing and vascular systems), and agriculture (crop protection and yield enhancement). Since its foundation in 2004 Arterra has been showing strong revenue growth (>20%) and robust EBITDA, in a competitive scenario of international players with negative marginality.

SWOT Analysis

Strengths

- Outstanding R&D and high qualified Technology team
- A global market reach with limited sales force investments
- thanks to the partnership with Intercos and the equity participation in Vitalab
- Scalable business model as products and in houd developed Ips can be applied simultaneously to different end-markets
- Profitable business model since its set up for a very low cost of raw materials and an effective and light organizational structure

Opportunities

- Bioscience great momentum as product sustainability has become the key mission of many industries
- Significant growth potential and resilience of Arterra's main end-market, the cosmetic industry

- Weaknesses
- Small size of the business
- End-markets concentration
- Non-optimized financial structure

Threats

- Effective end-markets diversification within the planned time frame
- Potential difficulty in maintaining the independence from global multinational brands

Main catalysts

Profitability improvement driven by the scaling up of production
 Significant growth fuelled by the needed bio innovation across industries
 Growing demand for functional make-up and Haircare

Main risks

Effective end-market diversification within the business plan time frame Becoming dependent on global multinational brands China's path of recovery

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Upside

Arterra						Rec	commen	dation
"ID Card"							BUY	
apr, 24 2024 - 09:59								
Main Financials								
	(€/000)	2020	2021	2022	2023	2024E	2025E	2026E
Total revenue		4,308	4,608	5,303	4,951	5,578	6,327	7,206
yoy change		18.8%	7.0%	15.1%	-6.6%	12.7%	13.4%	13.9%
EBITDA		1,602	1,735	2,133	1,591	2,010	2,389	2,877
EBITDA margin (%)		37.2%	37.7%	40.2%	32.1%	36.0%	37.8%	39.9%
EBIT		1,201	1,248	1,601	1,059	1,408	1,677	2,065
EBIT margin (%)		27.9%	27.1%	30.2%	21.4%	25.2%	26.5%	28.7%
Net income		1,108	1,111	1,414	1,076	1,184	1,406	1,727
Margin (%)		25.7%	24.1%	26.7%	21.7%	21.2%	22.2%	24.0%
Adjusted net debt (cash)		(4,067)	(4,199)	(5,502)	(5,672)	(6,042)	(6,793)	(7,855)
Shareholders Equity		8,181	9,473	10,467	10,752	11,429	12,278	13,343
Net Operating Working Capital		1,306	1,798	2,648	2,617	2,926	3,237	3,552
Capex and acquisitions		383	609	184	100	600	500	500
Free Cash Flow		507	385	779	1,311	819	1,243	1.649

	3.2 €	77%
Company Description		
Company Sector Price (€) Number of shares (mln) Market Cap (€ mln) Reference Index Main Shareholders		Health Care - Biotech 1.8 6.7 12.0 Euronext Growh Gabriella Colucci, Intercos
Main Shareholder stake Free Float Daily Average Volumes Sample of comparables		27.9% 49.5% 15,434 BRAIN, Croda, Symrise, Deinove, Evolva, Fermentalg, Plant Advanced Technologies, Novozxymes, Codexis

Target Price

Breakdown by business unit							
(% of total sales)	2020	2021	2022	2023	2024E	2025E	2026E
Cosmetic turnover	53%	71%	56%	54%	57%	60%	64%
Nutraceutical/medical devices turnover	0%	0%	0%	0%	0%	0%	0%
Research contracts and services	13%	12%	11%	13%	14%	14%	15%
Licences and royalties	0%	0%	0%	0%	0%	0%	0%
Research grants	35%	17%	33%	33%	33%	35%	37%
Total revenue	100.0%	100.0%	100.0%	99.5%	103.8%	109.3%	114.8%

	2020	2021	2022	2023	2024
Revenue Growth (yoy)	0.9%	52%	24%	-46%	12%
Arterra	19%	7%	15%	-7%	13%
EBITDA Margin	23%	29%	29%	24%	23%
Arterra	37%	38%	40%	32%	36%

Solvibility Ratios							
	2020	2021	2022	2023	2024E	2025E	2026E
Net debt (cash) / EBITDA Net debt (cash) / Equity	-2.5x -0.5x	-2.4x -0.4x	-2.6x -0.5x	-3.6x -0.5x	-3.0x -0.5x	-2.8x -0.6x	-2.7x -0.6x

	2020	2021	2022	2023	2024E	2025E	2026E
Tax rate	-8%	-13%	-21%	-17%	-20%	-20%	-20%
ROIC	29%	24%	32%	21%	26%	31%	38%
ROE	14%	12%	14%	10%	10%	11%	13%
Capex/Sales	9%	13%	3%	2%	11%	8%	7%
D&A to capex	105%	80%	290%	532%	100%	142%	162%

Multiples of peers		
	2024E	2025E
Best peers (business and potential growth)		
EV / SALES	3.4x	2.5x
Arterra	1.6x	1.4x
Best peers (margins and cash flows)		
EV / EBITDA	14.4x	12.6x
Arterra	4.4x	3.7x

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