

EUROLAND FOODS S.A.

In early January 2001, the senior management committee of Euroland Foods was to meet to draw up the firm's capital budget for the new year. Up for consideration were 11 major projects that totaled more than EUR316 million. Unfortunately, the board of directors had imposed a spending limit on capital projects of only EUR120 million. Even so, investment at that rate would represent a major increase in the firm's current asset base of EUR965 million. Thus, the challenge for the senior managers of Euroland Foods was to allocate funds among a range of compelling projects: new product introduction, acquisition, market expansion, efficiency improvements, preventive maintenance, safety, and pollution control.

The Company

Headquartered in Brussels, Belgium, Euroland Foods was a multinational producer of high-quality ice cream, yogurt, bottled water, and fruit juices. Its products were sold throughout Scandinavia, Britain, Belgium, the Netherlands, Luxembourg, western Germany, and northern France. (See **Exhibit 1** for a map of the company's marketing region.)

The company was founded in 1924 by Theo Verdin, a Belgian farmer, as an offshoot of his dairy business. Through his keen attention to product development and shrewd marketing, the business grew steadily over the years. The company went public in 1979, and, by 1993, was listed for trading on the London, Frankfurt, and Brussels exchanges. In 2000, Euroland Foods had sales of almost EUR1.6 billion.

Ice cream accounted for 60% of the company's revenue; yogurt, which was introduced in 1982, contributed about 20%. The remaining 20% of sales was divided equally between bottled water and fruit juices. Euroland Foods's flagship brand name was "Rolly," which was represented by a fat dancing bear in farmer's clothing. Ice cream, the company's leading product, had a loyal base of customers who sought out its high butterfat content, large chunks of chocolate, fruit, nuts, and wide range of original flavors.

This case was prepared by Casey Opitz and Robert F. Bruner and draws certain elements from an antecedent case by them. All names are fictitious. The financial support of the Batten Institute is gratefully acknowledged. It was written as a basis for class discussion rather than to illustrate effective or ineffective handling of an administrative situation. Copyright © 2001 by the University of Virginia Darden School Foundation, Charlottesville, VA. All rights reserved. To order copies, send an e-mail to sales@dardenbusinesspublishing.com. No part of this publication may be reproduced, stored in a retrieval system, used in a spreadsheet, or transmitted in any form or by any means—electronic, mechanical, photocopying, recording, or otherwise—without the permission of the Darden School Foundation.

Euroland Foods sales had been static since 1998 (**Exhibit 2**), which management attributed to low population growth in northern Europe and market saturation in some areas. Outside observers, however, faulted recent failures in new product introductions. Most members of management wanted to expand the company's market presence and introduce more new products to boost sales. Those managers hoped that increased market presence and sales would improve the company's market value. The company's stock was currently at 14 times earnings, just below book value. This price to earnings ratio was below the trading multiples of comparable companies, and it gave little value to the company's brands.

Resource Allocation

The capital budget at Euroland Foods was prepared annually by a committee of senior managers, who then presented it for approval to the board of directors. The committee consisted of five managing directors, the *président directeur-général* (PDG), and the finance director. Typically, the PDG solicited investment proposals from the managing directors. The proposals included a brief project description, a financial analysis, and a discussion of strategic or other qualitative considerations.

As a matter of policy, investment proposals at Euroland Foods were subject to two financial tests: payback and internal rate of return (IRR). The tests, or hurdles, had been established in 1999 by the management committee and varied according to the type of project as shown in **Table 1**.

Table 1. Project hurdles.

Type of Project	Minimum Acceptable IRR	Maximum Acceptable Payback Years
1. New product or new markets	12%	6 years
2. Product or market extension	10%	5 years
3. Efficiency improvements	8%	4 years
4. Safety or environmental	No test	No test

In January 2001, the estimated weighted average cost of capital (WACC) for Euroland Foods was 10.6%. In describing the capital-budgeting process, the finance director, Trudi Lauf, said:

We use the sliding scale of IRR tests as a way of recognizing differences in risk among the various types of projects. Where the company takes more risk, we should earn more return. The payback test signals that we are not prepared to wait for long to achieve that return.

Ownership and the Sentiments of Creditors and Investors

Euroland Foods's twelve-member board of directors included three members of the Verdin family, four members of management, and five outside directors who were prominent managers or public figures in northern Europe. Combined, members of the Verdin family owned 20% of Euroland Foods's shares outstanding, and company executives owned 10% of the shares. Venus Asset Management, a mutual fund management company in London, held 12%. *Banque du Bruges et des Pays Bas* held 9% and had one representative on the board of directors. The remaining 49% of the firm's shares were widely held. The firm's shares traded in Brussels and Frankfurt, Germany.

At a debt to equity ratio of 125%, Euroland Foods was leveraged much more highly than its peers in the European consumer foods industry. Management had relied on debt financing significantly in the past few years to sustain the firm's capital spending and dividends during a period of price wars initiated by Euroland. Now, with the price wars finished, Euroland's bankers (led by *Banque du Bruges*) strongly urged an aggressive program of debt reduction. In any event, the bank was not prepared to finance increases in leverage beyond the current level. The president of Banque du Bruges had remarked at a recent board meeting:

Restoring some strength to the right-hand side of the balance sheet should now be a first priority. Any expansion of assets should be financed from the cash flow after debt amortization until the debt ratio returns to a more prudent level. If there are crucial investments that cannot be funded this way, then we should cut the dividend!

At a price-to-earnings ratio of 14 times shares of Euroland Foods common stock were priced below the average multiples of peer companies and the average multiples of all companies on the exchanges where Euroland Foods was traded. This was attributable to the recent price wars, which had suppressed the company's profitability, and to the well-known recent failure of the company to seize significant market share with a new product line of flavored mineral water. Since January 2000, all the major securities houses had been issuing sell recommendations to investors in Euroland Foods shares. Venus Asset Management had quietly accumulated shares during this period, however, in the expectation of a turnaround in the firm's performance. At the most recent board meeting, the senior managing director of Venus gave a presentation, in which he said:

Cutting the dividend is unthinkable, as it would signal a lack of faith in your own future. Selling new shares of stock at this depressed price level is also unthinkable, as it would impose unacceptable dilution on your current shareholders. Your equity investors expect an improvement in performance. If that improvement is not forthcoming, or worse, if investors' hopes are dashed,

your shares might fall into the hands of raiders like Carlo de Benedetti or the Flick brothers.¹

At the conclusion of the most recent meeting of the directors, the board voted unanimously to limit capital spending to EUR120 million in 2001.

Members of the Senior Management Committee

Seven senior managers of Euroland Foods would prepare the capital budget. For consideration, each project had to be sponsored by one of the managers present. Usually the decision process included a period of discussion followed by a vote on two to four alternative capital budgets. The various executives were well known to each other:

Wilhelmina Verdin (Belgian), PDG, age 57. Granddaughter of the founder and spokesperson on the board of directors for the Verdin family's interests. Worked for the company her entire career, with significant experience in brand management. Elected "European Marketer of the Year" in 1982 for successfully introducing low-fat yogurt and ice cream, the first major roll-out of this type of product. Eager to position the company for long-term growth, but cautious in the wake of recent difficulties.

Trudi Lauf (Swiss), finance director, age 51. Hired from Nestlé in 1995 to modernize financial controls and systems. Had been a vocal proponent of reducing leverage on the balance sheet. Also, voiced the concerns and frustrations of stockholders.

Heinz Klink (German), managing director for distribution, age 49. Oversaw the transportation, warehousing, and order-fulfillment activities in the company. Spoilage, transport costs, stock-outs, and control systems were perennial challenges.

Maarten Leyden (Dutch), managing director for production and purchasing, age 59. Managed production operations at the company's 14 plants. Engineer by training. Tough negotiator, especially with unions and suppliers. A fanatic about production cost control. Had voiced doubts about the sincerity of creditors' and investors' commitment to the firm.

Marco Ponti (Italian), managing director of sales, age 45. Oversaw the field sales force of 250 representatives and planned changes in geographical sales coverage. The most vocal proponent of rapid expansion on the senior management committee. Saw several opportunities for ways to improve geographical positioning. Hired from Unilever in 1993 to revitalize the sales organization, which he successfully accomplished.

¹ De Benedetti of Milan and the Flick brothers of Munich were leaders of prominent hostile-takeover attempts in recent years.

Fabienne Morin (French), managing director for marketing, age 41. Responsible for marketing research, new product development, advertising, and in general, brand management. The primary advocate of the recent price war, which, although financially difficult, realized solid gains in market share. Perceived a window of opportunity for product and market expansion and tended to support growth-oriented projects.

Nigel Humbolt (British), managing director for strategic planning, age 47. Hired two years previously from a well-known consulting firm to set up a strategic planning staff for Euroland Foods. Known for asking difficult questions about Euroland's core business, its maturity, and profitability. Supported initiatives aimed at growth and market share. Had presented the most-aggressive proposals in 2000, none of which were accepted. Becoming frustrated with what he perceived to be his lack of influence in the organization.

The Expenditure Proposals

The forthcoming meeting would entertain the following proposals in **Table 2**:

Table 2. Proposals.

Project	Expenditure (euro millions)	Sponsoring Manager
1. Replacement and expansion of the truck fleet	33.0	Klink, distribution
2. A new plant	45.0	Leyden, production
3. Expansion of a plant	15.0	Leyden, production
4. Development and rollout of snack foods	27.0	Morin, marketing
5. Plant automation and conveyor systems	21.0	Leyden, production
6. Effluent water treatment at four plants	6.0	Leyden, production
7. Market expansion southward	30.0	Ponti, sales
8. Market expansion eastward	30.0	Ponti, sales
9. Development and introduction of new artificially sweetened yogurt and ice cream	27.0	Morin, marketing
10. Networked, computer-based inventory-control system for warehouses and field representatives	22.5	Klink, distribution
11. Acquisition of a leading schnapps brand and facilities	60.0	Humbolt, strategic planning

1. Replacement and expansion of the truck fleet: Heinz Klink proposed to purchase 100 new refrigerated tractor-trailer trucks, 50 each in 2001 and 2002. By doing so, the company could sell 60 old, fully depreciated trucks over the two years for a total of EUR4.05 million. The

purchase would expand the fleet by 40 trucks within two years. Each of the new trailers would be larger than the old trailers and afforded a 15% increase in cubic meters of goods hauled on each trip. The new tractors would also be more fuel- and maintenance-efficient. The increase in the number of trucks would permit more flexible scheduling and more efficient routing and servicing of the fleet than at present and would cut delivery times and, therefore, possibly inventories. It would also allow more frequent deliveries to the company's major markets, which would reduce the loss of sales caused by stock-outs. Finally, expanding the fleet would support geographical expansion over the long term.

As shown in **Exhibit 3**, the total net investment in trucks of EUR30 million and the increase in working capital to support added maintenance, fuel, payroll, and inventories of EUR3 million was expected to yield total cost savings and added sales potential of EUR11.6 million over the next seven years. The resulting IRR was estimated to be 7.8%, marginally below the minimum 8% required return on efficiency projects. Some of the managers wondered if this project would be more properly classified as efficiency than expansion.

2. *A new plant*: Maarten Leyden noted that Euroland Foods yogurt and ice cream sales in the southeastern region of the company's market were about to exceed the capacity of its Melun, France, manufacturing and packaging plant. At present, some of the demand was being met by shipments from the company's newest, most efficient facility, located in Strasbourg, France. Shipping costs over that distance were high, however, and some sales were undoubtedly being lost when the marketing effort could not be supported by delivery. Leyden proposed that a new manufacturing and packaging plant be built in Dijon, France, at the southern edge of the Euroland Foods current marketing region, to take the burden off the Melun and Strasbourg plants.

The cost of that plant would be EUR37.5 million and would entail EUR7.5 million for working capital. The EUR21 million worth of equipment would be amortized over 7 years, and the plant over 10 years. Through an increase in sales and depreciation and the decrease in delivery costs, the plant was expected to yield after-tax cash flows totaling EUR35.6 million and an IRR of 11.3% over the next 10 years. This project would be classified as a market extension.

3. *Expansion of a plant*: In addition to the need for greater production capacity in Euroland Foods's southeastern region, its Nuremberg, Germany, plant had reached full capacity. That situation made the scheduling of routine equipment maintenance difficult, which, in turn, created production scheduling and deadline problems. This plant was one of two highly automated facilities that produced Euroland Foods's entire line of bottled water, mineral water, and fruit juices. The Nuremberg plant supplied central and western Europe. The other plant, near Copenhagen, Denmark, supplied the Euroland Foods northern European markets.

The Nuremberg plant's capacity could be expanded by 20% for EUR15 million. The equipment (EUR10.5 million) would be depreciated over 7 years, and the plant over 10 years. The increased capacity was expected to result in additional production of up to EUR2.25 million a year, yielding an IRR of 11.2%. This project would be classified as a market extension.

4. Development and roll-out of snack foods: Fabienne Morin suggested that the company use the excess capacity at its Antwerp spice- and nut-processing facility to produce a line of dried fruits to be test-marketed in Belgium, Britain, and the Netherlands. She noted the strength of the Rolly brand in those countries and the success of other food and beverage companies that had expanded into snack food production. She argued that Euroland Foods's reputation for wholesome, high-quality products would be enhanced by a line of dried fruits and, further, that name association with the new product would probably even lead to increased sales of the company's other products among health-conscious consumers.

Equipment and working capital investments were expected to total EUR22.5 million and EUR4.5 million, respectively, for this project. The equipment would be depreciated over seven years. Assuming the test market was successful, cash flows from the project would be able to support further plant expansions in other strategic locations. The IRR was expected to be 13.4%, slightly above the required return of 12% for new product projects.

5. Plant automation and conveyer systems: Maarten Leyden also requested EUR21 million to increase automation of the production lines at six of the company's older plants. The result would be improved throughput speed and reduced accidents, spillage, and production tie-ups. The last two plants the company had built included conveyer systems that eliminated the need for any heavy lifting by employees. The systems reduced the chance of injury by employees; at the six older plants, the company had sustained an average of 223 missed-worker days per year per plant in the last two years because of muscle injuries sustained in heavy lifting. At an average hourly total compensation rate of EUR14 an hour, more than EUR150,000 a year was lost, and the possibility always existed of more serious injuries and lawsuits. Overall, cost savings and depreciation totaling EUR4.13 million a year for the project and were expected to yield an IRR of 8.7%. This project would be classed in the efficiency category.

6. Effluent water treatment at four plants: Euroland Foods preprocessed a variety of fresh fruits at its Melun and Strasbourg plants. One of the first stages of processing involved cleaning the fruit to remove dirt and pesticides. The dirty water was sent down the drain and into the Seine or Rhine Rivers. Recent European Community directives called for any wastewater containing even slight traces of poisonous chemicals to be treated at the sources and gave companies four years to comply. As an environmentally oriented project, this proposal fell outside the normal financial tests of project attractiveness. Leyden noted, however, that the water treatment equipment could be purchased today for EUR6 million; he speculated that the same equipment would cost EUR15 million in four years when immediate conversion became mandatory. In the intervening time, the company would run the risks that European Community regulators would shorten the compliance time or that the company's pollution record would become public and impair the image of the company in the eyes of the consumer. This project would be classed in the environmental category.

7 and 8. Market expansions southward and eastward: Marco Ponti recommended that the company expand its market southward to include southern France, Switzerland, Italy, and Spain,

and/or eastward to include eastern Germany, Poland, Czechoslovakia, and Austria. Ponti believed the time was right to expand sales of ice cream, and perhaps yogurt, geographically. In theory, the company could sustain expansions in both directions simultaneously, but practically, Ponti doubted that the sales and distribution organizations could sustain both expansions at once.

Each alternative geographical expansion had its benefits and risks. If the company expanded eastward, it could reach a large population with a great appetite for frozen dairy products, but it would also face more competition from local and regional ice cream manufacturers. Moreover, consumers in eastern Germany, Poland, and Czechoslovakia did not have the purchasing power that consumers to the south did. The eastward expansion would have to be supplied from plants in Nuremberg, Strasbourg, and Hamburg.

Looking southward, the tables were turned: more purchasing power and less competition but also a smaller consumer appetite for ice cream and yogurt. A southward expansion would require building consumer demand for premium-quality yogurt and ice cream. If neither of the plant proposals (proposals 2 and 3) was accepted, then the southward expansion would need to be supplied from plants in Melun, Strasbourg, and Rouen.

The initial cost of either proposal was EUR30 million of working capital. The bulk of this project's costs was expected to involve the financing of distributorships, but over the 10-year forecast period, the distributors would gradually take over the burden of carrying receivables and inventory. Both expansion proposals assumed the rental of suitable warehouse and distribution facilities. The after-tax cash flows were expected to total EUR56.3 million for southward expansion and EUR48.8 million for eastward expansion.

Marco Ponti pointed out that southward expansion meant a higher possible IRR but that moving eastward was a less risky proposition. The projected IRRs were 21.4% and 18.8% for southern and eastern expansion, respectively. These projects would be classed in the market extension category.

9. Development and introduction of new artificially sweetened yogurt and ice cream: Fabienne Morin noted that recent developments in the synthesis of artificial sweeteners were showing promise of significant cost savings to food and beverage producers as well as stimulating growing demand for low-calorie products. The challenge was to create the right flavor to complement or enhance the other ingredients. For ice cream manufacturers, the difficulty lay in creating a balance that would result in the same flavor as was obtained when using natural sweeteners; artificial sweeteners might, of course, create a superior taste.

In addition, EUR27 million would be needed to commercialize a yogurt line that had received promising results in laboratory tests. This cost included acquiring specialized production facilities, working capital, and the cost of the initial product introduction. The overall IRR was estimated to be 20.5%.

Morin stressed that the proposal, although highly uncertain in terms of actual results, could be viewed as a means of protecting present market share, because other high-quality ice

cream producers carrying out the same research might introduce those products. If the Rolly brand did not carry an artificially sweetened line and its competitors did, the brand might suffer. Morin also noted the parallels between innovating with artificial sweeteners and the company's past success in introducing low-fat products. This project would be classed in the new product category of investments.

10. Networked, computer-based inventory control system for warehouses and field representatives. Heinz Klink had pressed unsuccessfully for three years for a state-of-the-art computer-based inventory control system that would link field sales representatives, distributors, drivers, warehouses, and possibly even retailers. The benefits of such a system would be shorter delays in ordering and order processing, better control of inventory, reduction in spoilage, and faster recognition of changes in demand at the customer level. Klink was reluctant to quantify those benefits, because they could range between modest and quite large amounts. This year, for the first time, he presented a cash flow forecast, however, that reflected an initial outlay of EUR18 million for the system, followed by EUR4.5 million in the next year for ancillary equipment. The inflows reflected depreciation tax shields, tax credits, cost reductions in warehousing, and reduced inventory. He forecast those benefits to last for only three years. Even so, the project's IRR was estimated to be 16.2%. This project would be classed in the efficiency category of proposals.

11. Acquisition of a leading schnapps² brand and associated facilities. Nigel Humbolt had advocated making diversifying acquisitions in an effort to move beyond the company's mature core business, but doing so in a way that exploited the company's skills in brand management. He had explored six possible related industries in the general field of consumer packaged goods and determined that cordials and liqueurs offered unusual opportunities for real growth and, at the same time, market protection through branding. He had identified four small producers of well-established brands of liqueurs as acquisition candidates. Following exploratory talks with each, he had determined that only one company could be purchased in the near future, namely, the leading private European manufacturer of schnapps, located in Munich.

The proposal was expensive: EUR25 million to buy the company and EUR30 million to renovate the company's facilities completely while simultaneously expanding distribution to new geographical markets. The expected returns were high: after-tax cash flows were projected to be EUR198.5 million, yielding an IRR of 27.5%. This project would be classed in the new product category of proposals.

Conclusion

Each member of the management committee was expected to come to the meeting prepared to present and defend a proposal for the allocation of Euroland Foods's capital budget

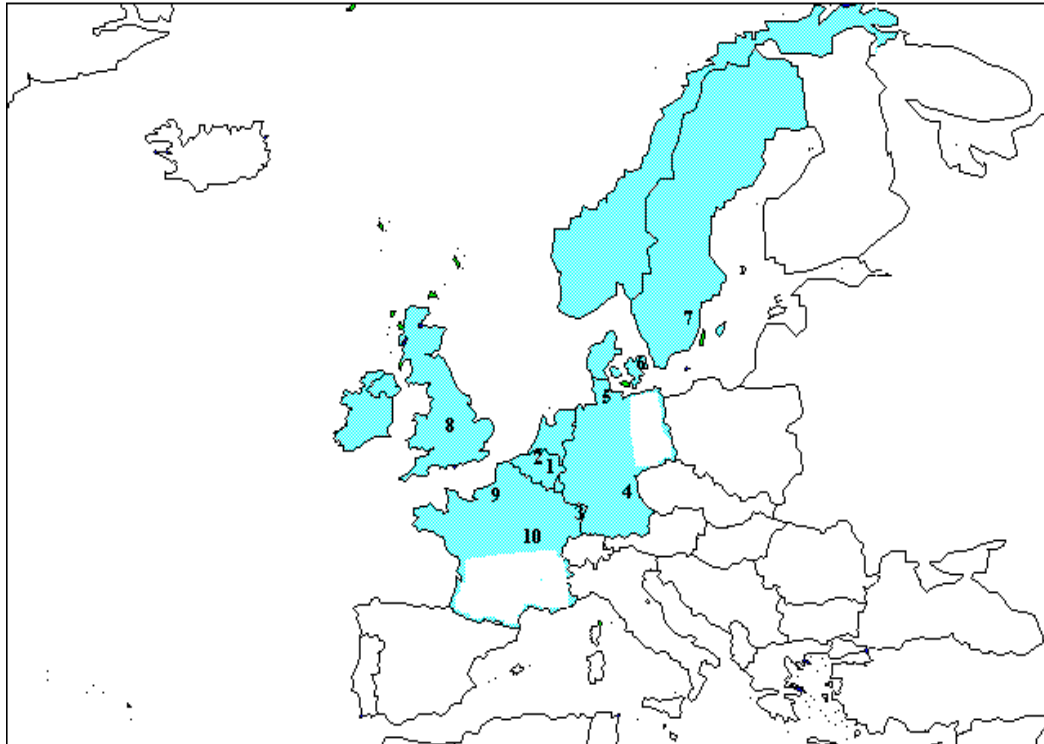
² Any of various strong dry liquors, such as a strong Dutch gin. Definition borrowed from *American Heritage Dictionary of the English Language*, 4th ed.

of EUR120 million. **Exhibit 3** summarizes the various projects in terms of their free cash flows and the investment performance criteria.

Exhibit 1

EUROLAND FOODS S.A.

Nations where Euroland Foods Competed



Note: The shaded area on this map reveals the principal distribution region of Euroland's products. Important facilities are indicated by the following figures:

- 1 Headquarters, Brussels, Belgium
- 2 Plant, Antwerp, Belgium
- 3 Plant, Strasbourg, France
- 4 Plant, Nuremberg, Germany
- 5 Plant, Hamburg, Germany
- 6 Plant, Copenhagen, Denmark
- 7 Plant, Svald, Sweden
- 8 Plant, Nelly-on-Mersey, England
- 9 Plant, Caen, France
- 10 Plant, Melun, France

Exhibit 2

EUROLAND FOODS S.A.

Summary of Financial Results
(all values in EUR millions, except per-share amounts)

	Fiscal Year Ending December		
	1998	1999	2000
Gross sales	1,614	1,608	1,611
Net income	77	74	56
Earnings per share	1.13	1.08	0.81
Dividends	30	30	30
Total assets	716	870	984
Shareholders' equity (book value)	559	640	697
Shareholders' equity (market value)	1,271	1,258	784

Exhibit 3

EUROLAND FOODS S.A.

Free Cash Flows and Analysis of Proposed Projects¹
(all values in EUR millions)

Project	1	2	3	4	5	6	7	8	9	10
	Expand Truck Fleet (note 3)	New Plant (Dijon, France)	Expanded Plant (Nuremberg, Germany)	Snack Foods	Automation and Conveyor Systems	Southward Expansion (note 5)	Eastward Expansion (note 5)	Artificial Sweetener	Inventory-Control System	Strategic Acquisition (note 6)
Investment Property	30.00	37.50	15.00	22.50	21.00	0.00	0.00	22.50	22.50	45.00
Working capital	3.00	7.50	0.00	4.50	0.00	30.00	30.00	4.50	0.00	15.00
Year	0	1	2	3	4	5	6	7	8	9
	-17.10	-45.00	-15.00	-9.00	-21.00	-30.00	-30.00	-27.00	-18.00	-25.00
	-11.85	3.00	1.88	-9.00	4.13	5.25	4.50	4.50	8.25	-30.00
	4.50	7.50	2.25	-9.00	4.13	6.00	5.25	6.00	8.25	7.50
	5.25	8.25	2.63	4.50	4.13	6.75	6.00	6.75	7.50	13.50
	6.00	9.00	3.00	4.50	4.13	7.50	6.75	7.50	7.50	16.50
	6.75	9.38	3.38	6.00	4.13	8.25	7.50	7.50	7.50	19.50
	7.50	9.75	3.75	6.75	4.13	9.00	8.25	7.50	7.50	22.50
	10.50	10.13	2.25	7.50	4.13	9.75	9.00	7.50	7.50	25.50
		7.50	2.25	8.25		10.50	9.75	7.50		28.50
		7.88	2.25	9.00		11.25	10.50	7.50		31.50
		8.25	2.25	9.75		12.00	11.25	7.50		34.50
	11.55	35.63	10.88	29.25	7.88	56.25	48.75	42.75	6.00	198.50
Undiscounted sum	6	6	6	7	6	5	5	5	3	5
Payback (years)	4	5	5	6	4	6	6	6	4	6
Maximum payback accepted	7.8%	11.3%	11.2%	13.4%	8.7%	21.4%	18.8%	20.5%	16.2%	27.5%
IRR	8.0%	10.0%	10.0%	12.0%	8.0%	12.0%	12.0%	12.0%	8.0%	12.0%
Minimum accepted ROR	-0.2%	1.3%	1.2%	1.4%	0.7%	9.4%	6.8%	8.5%	8.2%	15.5%
Spread	-2.88	1.49	0.41	3.74	-1.31	17.99	13.49	13.43	1.75	69.45
NPV at corp. WACC (10.6%)	-0.19	2.81	0.82	1.79	0.48	14.85	10.62	10.97	2.67	59.65
NPV at minimum ROR	-0.04	0.46	0.13	0.32	0.09	2.63	1.88	1.94	1.03	10.56
Equivalent annuity (note 2)										

¹ The effluent treatment program is not included in this exhibit.

² The equivalent annuity of a project is that level annual payment that yields a net present value (NPV) equal to the NPV at the minimum required rate of return for that project. Annuity corrects for differences in duration among various projects. In ranking projects on the basis of equivalent annuity, bigger annuities create more investor wealth than smaller annuities.

³ This reflects EUR16.5 million spent both initially and at the end of year one.

⁴ Free cash flow = Incremental profit or cost savings after taxes + Depreciation – Investment in fixed assets and working capital.

⁵ Franchisees would gradually take over the burden of carrying receivables and inventory.

⁶ EUR25 million would be spent in the first year, EUR30 million in the second, and EUR5 million in the third.