



RANPLAN GROUP AB

Interim Report

January – June 2024



Perfecting Wireless Networks



First half of 2024 (first half of 2023)

- ◆ Total income amounted to SEK 14.0 million (11.2 million)¹
- ◆ Net sales amounted to SEK 6.6 million (6.2 million)
- ◆ Total revenues amounted to SEK 11.4 million (8.1 million)
- ◆ Operating income amounted to SEK -5.5 million (-14.5 million)
- ◆ Net income amounted to SEK -6.6 million (-15.8 million)
- ◆ Earnings per share amounted to SEK -0.14 (-0.51)
- ◆ Cash flow from operations amounted to -SEK 3.6 million (-10.7 million)
- ◆ Cash at the end of the period amounted to SEK 2.4 million (11.6 million)
- ◆ At the end of June 2024, SEK 30.2 million of the credit line was unutilised².

Significant events in the first half of 2024 and year-to-date

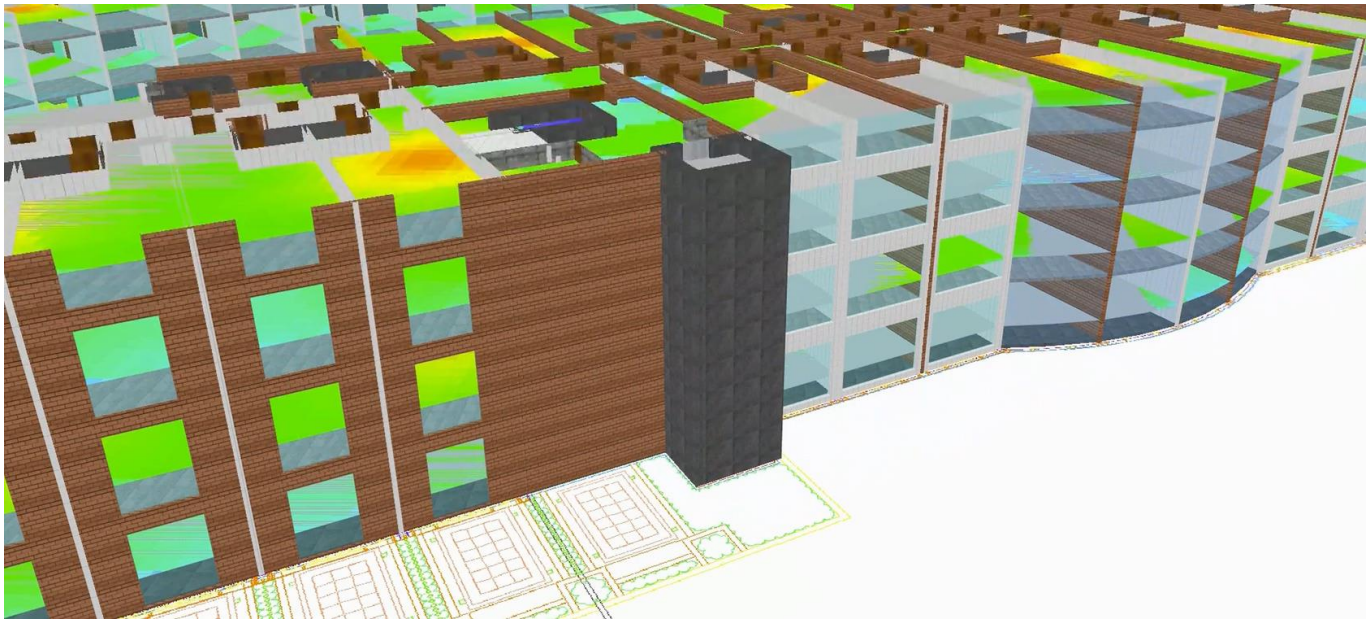
- ◆ On 15th January 2024, Ranplan announced that Per Lindberg has, via a wholly owned company, made public a cash offer to shareholders in Ranplan Group AB, see link in Swedish below: [Per Lindberg lämnar, via helägt bolag, ett kontant budpliktsbud till aktieägarna i Ranplan Group AB - Goldcup 34506 AB \(cision.com\)](#)
- ◆ On 19th February 2024, Per Lindberg, via a wholly owned company, made public the Offer Document regarding the mandatory bid for Ranplan Group AB: [Per Lindberg BidCo AB makes public the Offer Document regarding the mandatory bid for Ranplan Group AB \(ranplanwireless.com\)](#)
- ◆ On 4th March 2024, the Board of Directors of Ranplan Group AB published a statement regarding Per Lindberg BidCo's Public Cash Offer: [Statement by the Board of Directors of Ranplan Group AB regarding Per Lindberg BidCo AB's Public Cash Offer \(ranplanwireless.com\)](#)
- ◆ On 20th March 2024, Per Lindberg Bid Co AB published the outcome of the concluded mandatory bid for Ranplan Group AB: [Per Lindberg BidCo AB makes public the outcome of the concluded mandatory bid for Ranplan Group AB \(ranplanwireless.com\)](#)
- ◆ On 3rd May 2024, the Annual General Meeting for 2023 was held in Stockholm, Sweden. [Annual general meeting held in Ranplan Group AB \(publ\) \(ranplanwireless.com\)](#)
- ◆ On 30th July 2024, Ranplan officially launched a major software upgrade: [The Power of Open File Formats, Exchange of Data, and Advanced 3D Visualization: Introducing Ranplan 7.0 \(ranplanwireless.com\)](#)

Notes:

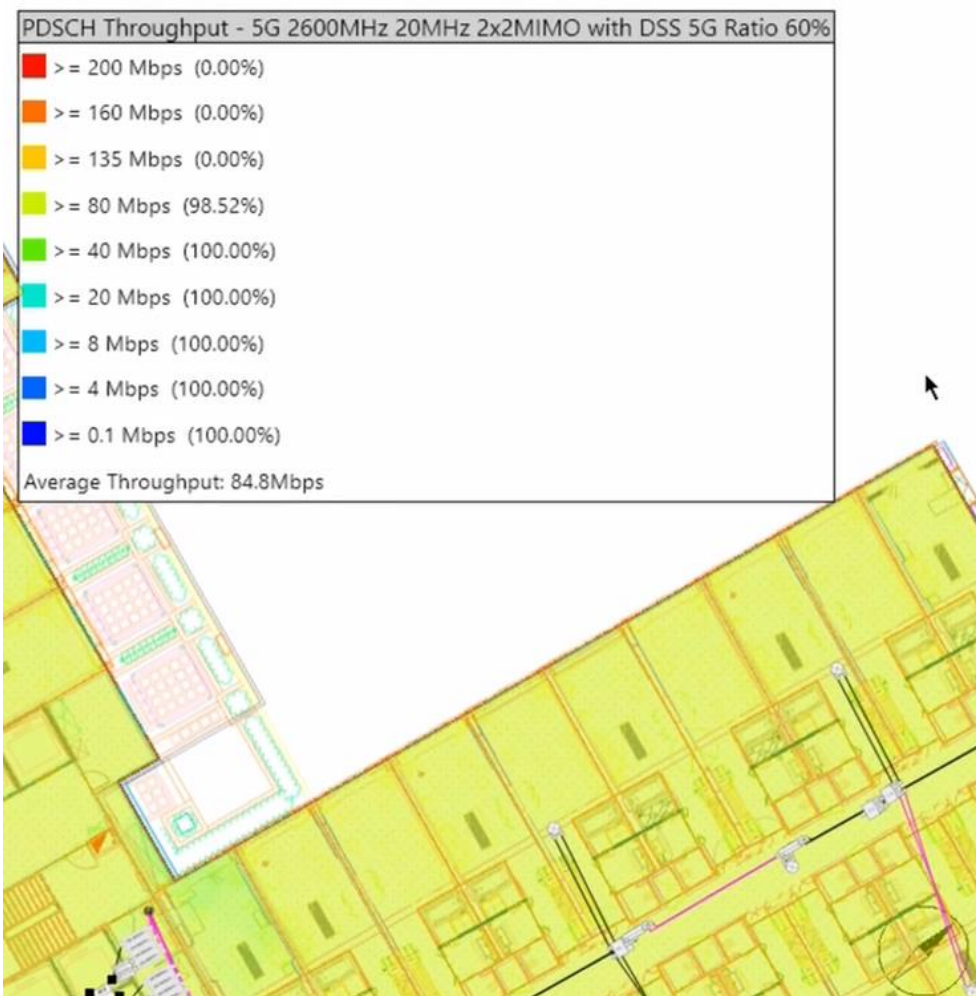
1 Total income comprises the sum of net sales (related to commercial products and services), other income (associated with research projects) and other operating income (derived from R&D tax credits). Total revenues comprise the sum of net sales and other income.

2 Cash deposited on an interest-bearing account is treated as debt repaid (until it may be released for utilisation).

The latest software release provides several most tangible user benefits



*With the launch of **PROFESSIONAL 7.0** on 30th July 2024, Ranplan Wireless unveiled a much-enhanced user interface, an enriched 3D viewer, support for Wi-Fi 7, IFC exports, **Dynamic Spectrum Sharing (DSS)**, and advanced MIMO functionality.*



Words from the CEO

Given the external environment in which it operates, the Company performed quite well in the first half of 2024. Total revenues, comprising commercial products and services as well as research projects, rose by 40% year-on-year. Gross profits advanced by 25% with the gross margin hovering in the vicinity of 100% – mirroring the pure software licensing business model in the absence of any material resale from 3rd parties. The loss from operations amounted to SEK 5.5 million – the lowest level ever recorded for any six-months period – representing less than half of R&D investments– none of which capitalised as an asset. Cash flow post a net release of working capital was contained at -SEK 3.6 million, a most noticeable improvement on the first and second half of 2023. The pipeline of prospects also continued to expand.

Net sales expanded by 7%, following receipt of a number of key purchase orders from new prospects as well as existing customer accounts. No single deal had any material influence on the overall outcome. Encouragingly, breadth of interest in our software tools is clearly discernible in most parts of the world, although, as witnessed by most sector peers, the telecom industry is still restrained by heightened risk aversion on the back of the sharp increase in interest rates and the cost of capital since the end of 2021. Recent feedback from customers instils a sense of comfort and conviction that we possess a very competitive product portfolio which sooner or later should engender superior growth vis-à-vis our peers.

Other income, generating 150% higher revenues than a year ago, constitutes a major contributor to the improvements of the financial results. These future-orientated activities aimed at establishing new business opportunities provide us not only with income but also insights and inspirations in close alliance with leading partners and sponsors. They serve as an implied assurance for our commercial customers that we will continue to stay at the absolute frontier of industry developments. We are currently running eight research projects of which several are critical to enabling some of the most central ingredients of 6G, such as reconfigurable intelligent surfaces (RIS), Terahertz cellular and air-to-ground communication.

The extraordinary number of research projects notwithstanding, substantial efficiency gains are in clear evidence. In the first six months of the year, operating expenses contracted by slightly more than a quarter with the research and development (R&D) and sales and marketing (S&M) components thereof shrinking by close to one third. Even so, the output from our combined efforts is at least as high as ever before. A sharper focus on the most tangible of opportunities, a stricter prioritisation and a more disciplined commercial approach underpin the changes that we will seek to extend into the coming periods and years. A prime case in point is the streamlining of our software trials which are now highly automated via our web portal, allowing us to handle many more prospective customers without much human involvement.

After the end of the first half. Ranplan Wireless introduced the latest incarnation of its award-winning software tools, Ranplan 7.0 – one of the most comprehensive and important upgrades in the Company's close to 20-year long history. With this release of this version, we take further steps in differentiating and distancing us from competition across a multiplicity of domains: (1) an entirely modernised user interface will enhance the user experience; (2) an enriched 3D viewer will allow for real-time refinements; (3) export of IFC files will ease the exchange and reuse of data; (4) support for Dynamic Spectrum Sharing (DSS) will smooth migrations from LTE/4G to 5G (and 5G Advanced); (5) support for WiFi -7 will pave the way for lower latency and higher reliability, and (6) extended MIMO functionality will unleash novel capabilities.

Though not growing as briskly as anticipated during its formative years, private wireless (also known as CBRS in the USA, Local 5G in Japan, or Dedicated Networks which also includes Public Safety) remains at the kernel of our strategic direction. This is the space where the qualities of our software tools are most appreciated, where the revenue prospects are the greatest, where performance criteria (including latency, reliability and occasionally redundancy) are the most exacting, and where the use cases, for the smart city, factory, warehouse etc. are the most advanced. This is also where entirely new (so called greenfield) networks will be built, alleviating the obstacles that many a supplier may face in displacing or replacing a long-standing incumbent with legacy systems in place.

Following completion of the mandatory Public Bid for all outstanding shares, the Company has obtained greater flexibility in attracting external capital to fund its operations (should it be needed). It is worth noting, after all, that three set-off issues, through which all then-outstanding debt was converted into new equity, have been carried out between October 2020 and December 2023 – thereby bolstering the balance sheet most significantly. Whilst the credit line (capped at SEK 50 million) expires on 28 February 2025 – it may not necessitate consumption of liquidity. Also, whilst the level of net debt rose by around SEK 4.8 million in the first six months to around SEK 17.4 million, it still leaves over SEK 30 million of the credit line (capped at SEK 50 million) to be drawn, if it will at all be needed.

For all the gloom and doom descending on the telecom industry, resulting in near record-low valuation multiples for the sector at large (a polar opposite to the heydays of the TMT boom a quarter of a century ago), we take solace in empirical evidence that periods of extended frugality (as witnessed of late) almost invariably foster elements of pent-up demand, triggering a rebound on the back of a catch-up investment cycle. We envisage revived spending appetite in preparations for deployment in the mid-band of the 5G spectrum (3.5 – 6.0 GHz), 5G Advanced and, towards the end of the decade, 6G – unleashing entirely new applications which we are well placed to help realise. We are also devoting more attention to Wi-Fi, which through version 7 and beyond is bound to become more ‘cellular-like’ in its capability and complexity – triggering real interest in software products of the calibre we provide.

Our modus operandi will be increasingly guided by creativity, productivity and selectivity. Considering the sheer diversity and variety of proposals and requests they encounter as a matter of course technology companies must continually decide what to do (and how to do it) and what not to do (and how to avoid it). Against this backdrop, we will concentrate our resources on areas where we possess distinctive, sustainable competitive advantages while exploring and nurturing strategic collaborations and partnerships elsewhere. We will always seek to meet our customers’ genuine, intrinsic needs and act as a formidable protagonist of open file formats to ease integration and interoperability with third-party software components. The release of our latest and most significant software version is as fine an illustration of the value these strategic imperatives afford. It is also a great tribute to the efficiency, proficiency and tenacity our staff display in commendably collaborative and cross-functional efforts.



Per Lindberg, CEO



Summary of the period

Powered mainly by research projects, rising 150% year-on-year, total revenues in the first half of the year advanced by 40%. Net sales, absent any material contributions from resale of third-party products and services, propelled forward by 7%. Helped by materially reduced OPEX, down by slightly more than a quarter in comparison with the year-earlier period, the loss from operations (including one-off charges) shrank by nearly two thirds to SEK 5.5 million – the lowest level registered as a listed entity on NASDAQ First North and less than half of R&D investments (none of which capitalised as an asset on the balance sheet). Operationally, substantive efficiency gains were realised. At the end of July, a major upgrade of our software, encompassing several *industry-firsts* as well as a modernised user interface and an enriched 3D viewer, was introduced. We will seek to fully commercialise this release in the latter part of 2024.

Financials

Profit & Loss

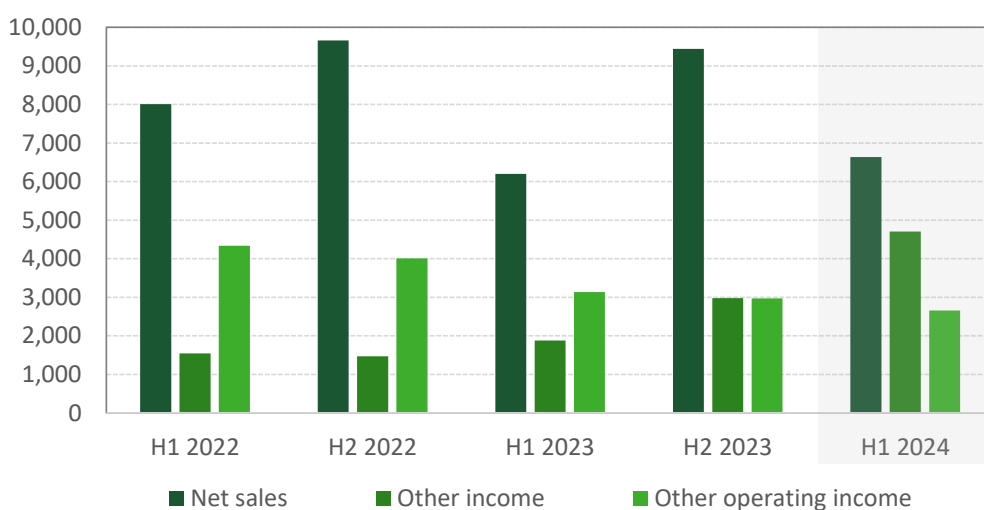
Total income in the first six months of 2024 (1 Jan – 30 June 2024) reached SEK 14.0 million, representing an increase of 24% in comparison with the year-earlier period. Net sales derived solely from commercial products and services rose by 7% on the same basis. Other income related to research grants jumped by 150% on the back of record-extending inflow of new projects. Other operating income, drawn from R&D tax credits, contracted by 15%, in part due to changes to the qualification criteria (as previously flagged). Total revenue, comprising net sales and other income, reached SEK 11.4 million, up 40% year-on-year.

Total revenues by half-year period

SEK 000s	H1 2022	H2 2022	H1 2023	H2 2023	H1 2024
Net sales	8,007	9,661	6,201	9,441	6,635
Research Projects	1,543	1,470	1,882	2,978	4,704
Total Revenue	9,550	11,131	8,083	12,419	11,339

Total income by half-year period*

(SEK 000s)



*Total income is defined as the sum of net sales, other income and other operating income. Net sales relate to commercial products and services, Other income to research projects, and Other operating income to R&D tax credits in the United Kingdom.

Total income mix by half-year period

Share of total	H1 2022	H1 2022	H1 2023	H2 2023	H1 2024
Net sales	58%	64%	55%	61%	47%
Other income	11%	10%	17%	19%	34%
Other operating income	31%	26%	28%	19%	19%
Total Income	100%	100%	100%	100%	100%

Operating profit in the first six months of the year amounted to -SEK 5.5 million, marking substantially less a loss than the -SEK 14.5 million registered in January-June 2023. Net income amounted to -SEK 6.6 million (-SEK 15.8 million). Interest expenses decreased by circa SEK 0.2 million from the level recorded in H1 2023.

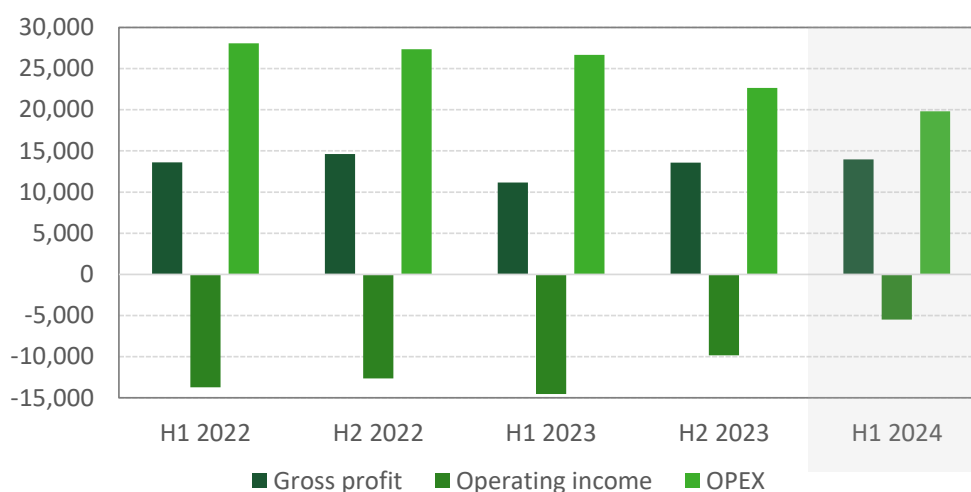
SEK 000s	H1 2022	H2 2022	H1 2023	H2 2023	H1 2024
Gross profit	13,616	14,608	11,172	13,582	13,960
Operating income	-13,737	-12,646	-14,536	-9,825	-5,494
Net income	-13,720	-12,970	-15,838	-11,534	-6,629

Gross profit here comprises total income less cost of sales. Gross margin is here defined as the ratio of gross profits and total income.

Gross profit, here defined as the difference between total income and cost of sales, expanded by 15% year-on-year to SEK 14.0 million. The gross margin, calculated as the ratio of gross profit and total income, remains in the vicinity of 100%, reflecting the inherent attractiveness of a business model revolving mainly around the scalability of *Net sales (software licensing)* with no inclusion of any third-party commercial software. In this context, it should be noted, though, that resale of other third-party product, such as geo-data, and design services may occur and will from time to time depress the aggregated figures. Costs associated with *Other income* (research projects) and *Other operating income* (R&D tax credits) are treated as operating expenses.

Gross profit, operating income and expenses ('OPEX')

(SEK 000s)



Earnings per share, calculated as net income divided by the *average* number of outstanding shares before any dilution, amounted to -SEK 0.14 in the first half of 2024, down from -SEK 0.52 in the year-earlier period.

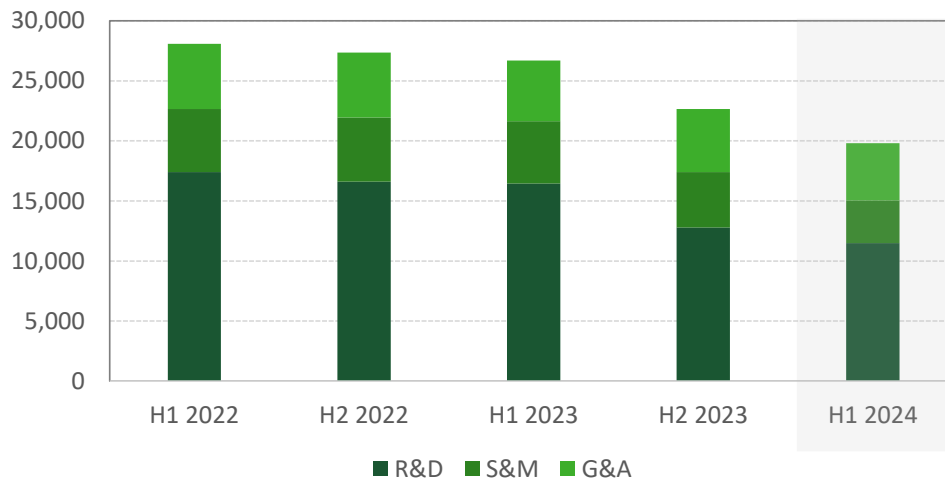
Earnings per share

SEK 000s	H1 2022	H2 2022	H1 2023	H2 2023	H1 2024
Average no of shares (000s)	30,438	30,438	30,438	31,707	47,118
EPS (SEK per share)	-0.45	-0.43	-0.52	-0.36	-0.14

Operating expenses attributable to research and development (“R&D”), sales and marketing (“S&M”) as well as general and administration (“G&A”) amounted to SEK 19.8 million, slightly more than a quarter down on the first half of last year. R&D investments – all of which expensed as activities are actually undertaken – shrank by 30% year-on-year to SEK 11.5 million. Sales and marketing costs of SEK 3.6 million were similarly reduced. Expenses associated with general functions and administration receded by 6% to SEK 4.8 million. R&D made up represented close to 60% of overall operating expenditures. It should be stressed that restructuring charges or any other exceptional items are included on an ongoing basis in the reported figures.

Operating expenses by activity*

(SEK 000s)



SEK 000s	H1 2022	H2 2022	H1 2023	H2 2023	H1 2024
R&D	17,395	16,617	16,459	12,786	11,491
S&M	5,269	5,321	5,171	4,619	3,557
G&A	5,409	5,417	5,055	5,253	4,755
OPEX	28,073	27,355	26,685	22,658	19,803

*Operating expenses (“OPEX”) consist of expenses associated with research and development (“R&D”), sales and marketing (“S&M”) and general functions and administration (“G&A”). These expenses, including restructuring, are reported as they are actually incurred.

Operating cash flow (OpCF) amounted to -SEK 3.6 million versus -SEK 10.7 million in the first half of 2023, before movements of working capital (no inventories), a similar pattern – with figures precisely aligned with the reported numbers for reported operating income* – can be discerned: -SEK 5.5 million (-14.5 million).

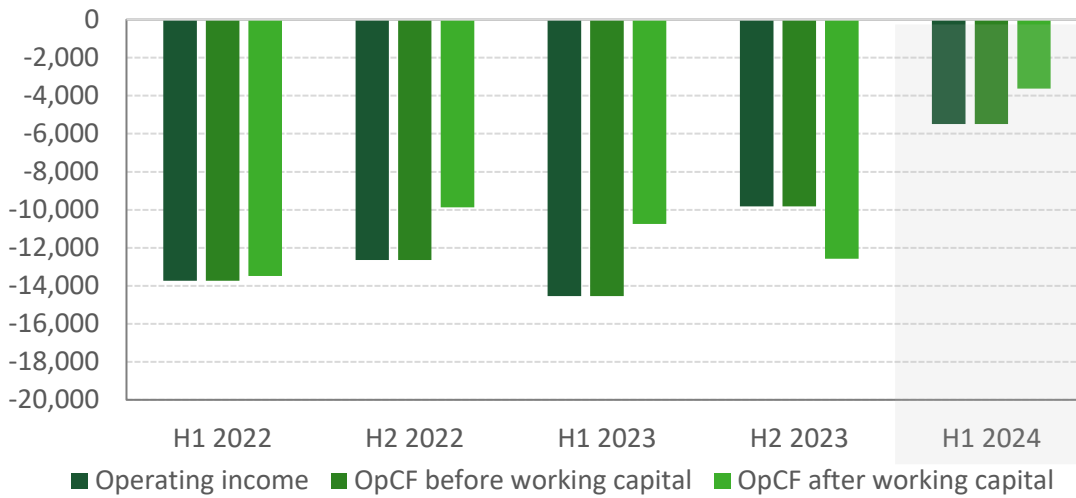
*as a consequence of the fact that, as a matter of course, no investments or depreciations/amortisations are booked in the accounts.

Summary of cash flow by half-year period

SEK 000s	H1 2022	H2 2022	H1 2023	H2 2023	H1 2024
Operating income	-13,737	-12,646	-14,536	-9,825	-5,494
OpCF before working capital	-13,737	-12,646	-14,536	-9,825	-5,494
OpCF after working capital	-13,476	-9,877	-10,745	-12,582	-3,625

Operating income, cash flow (“OpCF”) before and after working capital

(SEK 000s)

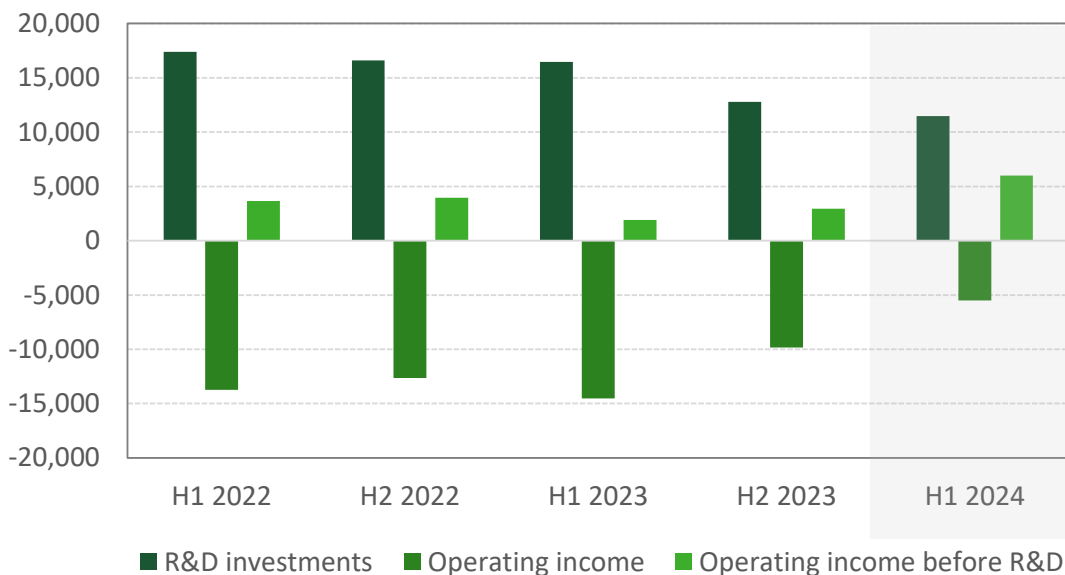


Accounting for R&D expenses

In judging the income statement, readers may wish to observe that the Company absorbs all R&D expenses directly (no capitalisation or amortisation is recorded). As an alternative measure of performance, investors may note that in the first half of 2024, the Company incurred a surplus SEK 6.0 million at the operating level before R&D expenses, equivalent to 90% of net sales – these figures can be compared with an operating loss of SEK 5.5 million, after instantly absorbing 100% of all R&D expenses.

Operating income before and after R&D expenditures

(SEK 000s)



SEK 000s	H1 2022	H2 2022	H1 2023	H2 2023	H1 2024
R&D investments	17,395	16,617	16,459	12,786	11,491
Operating income	-13,737	-12,646	-14,536	-9,825	-5,494
Operating income before R&D	3,658	3,971	1,923	2,961	5,997

*All expenses associated with research and development (“R&D”) are absorbed in the period in which they are actually incurred.

Balance sheet

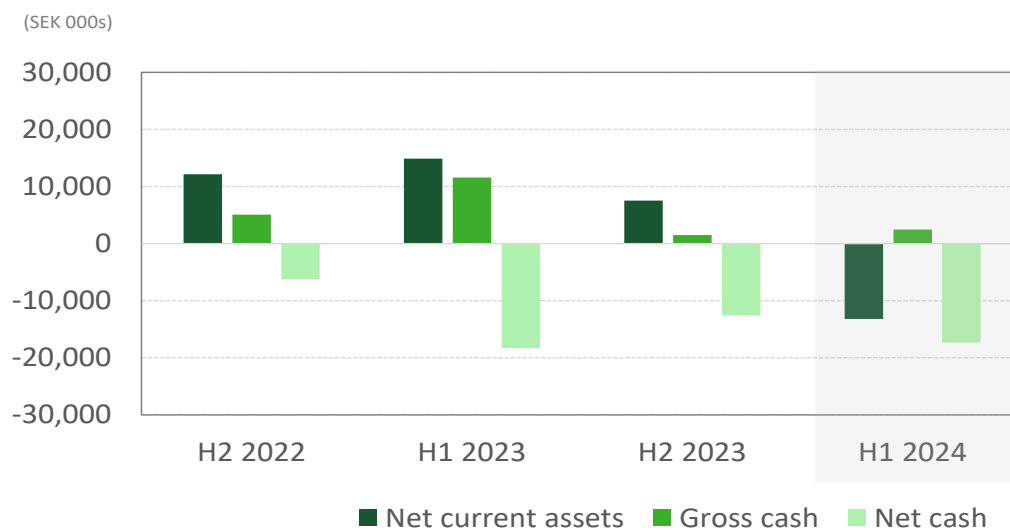
At the end of June 2024, the Company held gross cash of SEK 2.4 million, down from SEK 11.6 million twelve months earlier but up from SEK 1.5 million at the end of 2023. Net cash amounted to -SEK 17.4 million, compared with -SEK 18.3 million and -SEK 12.6 million at the end of June and December 2023, respectively. The level of debt reflects the accumulation of loans and accrued interest. The credit line with a ceiling set at SEK 50 million, expiring on 28 Feb 2025, had SEK 30 million undrawn on 30 June 2024. On three previous occasions, substantial amounts of debt have been converted into new equity (see section on the development of shares for further details).

Balance sheet summary

SEK 000s	31 DEC 2022	30 JUN 2023	31 DEC 2023	30 JUN 2024
Net current assets	12,152	14,866	7,541	-13,177
Gross cash	5,072	11,577	1,494	2,444
Net cash	-6,258	-18,304	-12,596	-17,355
Shareholders' equity	806	-15,015	-6,549	-13,178
o/w fixed assets	0	0	0	0
o/w intangible assets	0	0	0	0

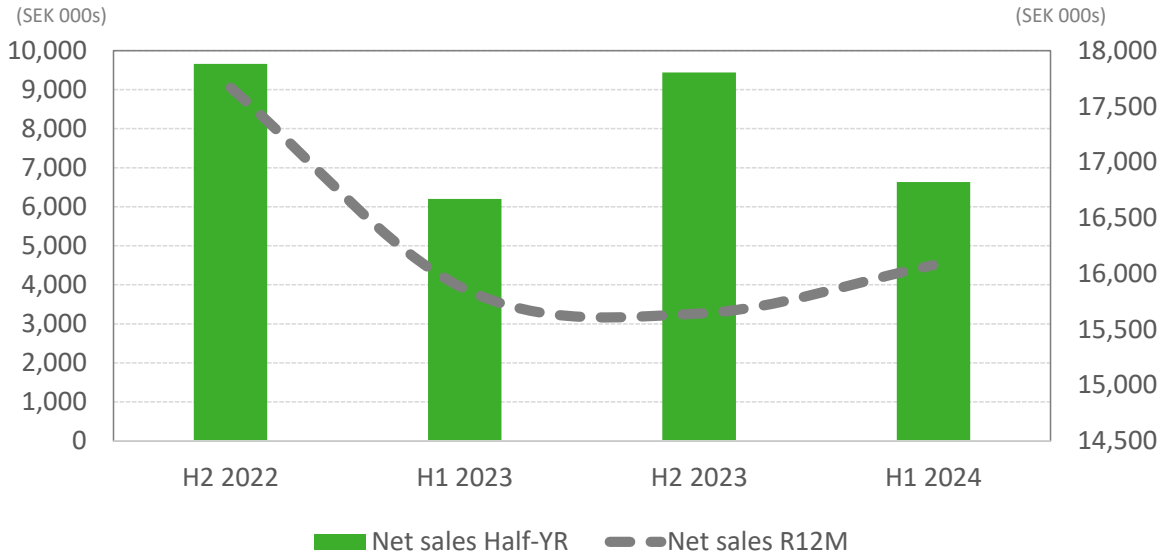
*The Company has *chosen* to not capitalise any R&D expenses, patents, losses carried forward or equipment owned.

Net current assets and net cash by end of half-year period

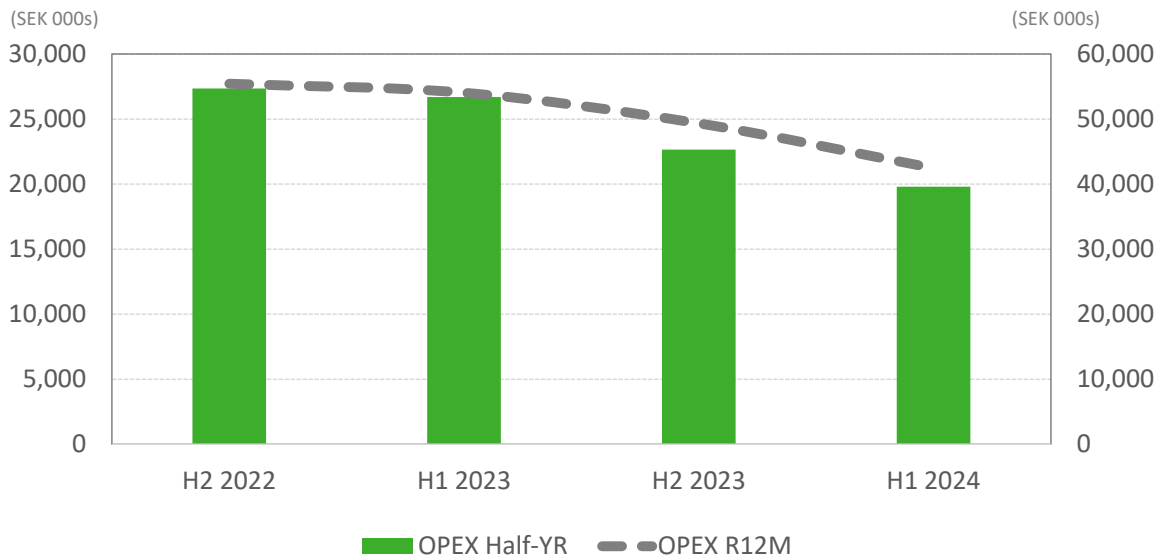


Shareholders' equity amounted to -SEK 13.2 million at the end of June 2024 versus -SEK 15.0 million and -SEK 6.5 million at the end of June and December 2023, respectively. It should be clarified that the balance sheet contains no intangible assets, neither in the form of patents (of which more than twenty have been granted), nor in the form of capitalised R&D. Since the beginning of 2017, the Company has spent well over SEK 200 million on R&D investments and reported revenues in excess of SEK 80 million. No values are attributable on the balance sheet to the patent portfolio, or, as an aside, to losses carried forward (which could engender economic value in the event that profits would be attained or sustained).

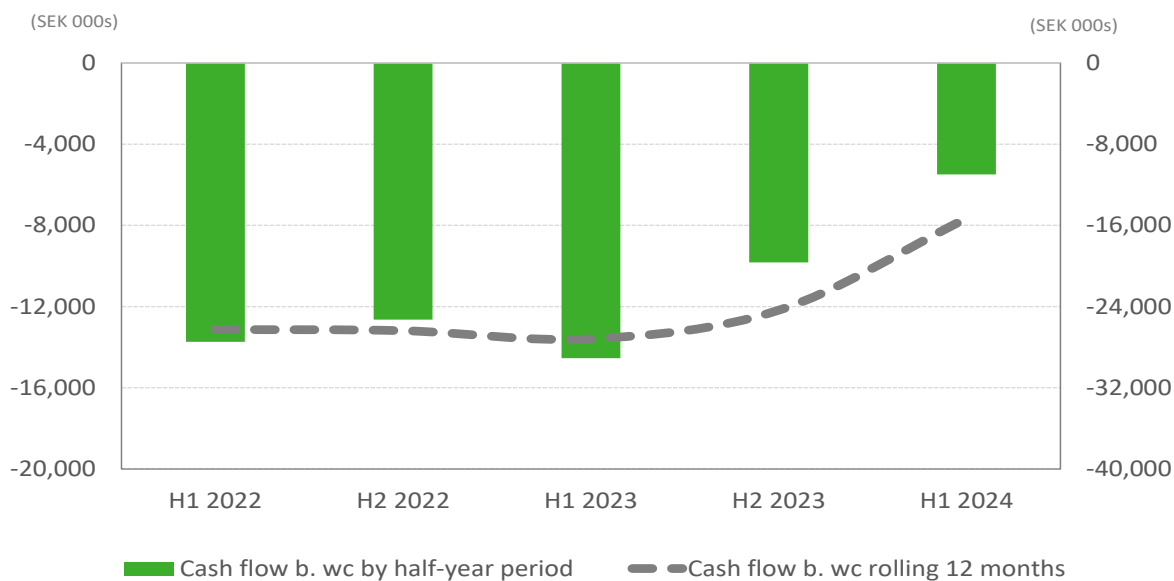
Net sales by half-year period and on a rolling twelve-months basis



Operating expenses by half-year period and on a rolling twelve-months basis



Operating cash-flow by half-year period and on a rolling twelve-months basis



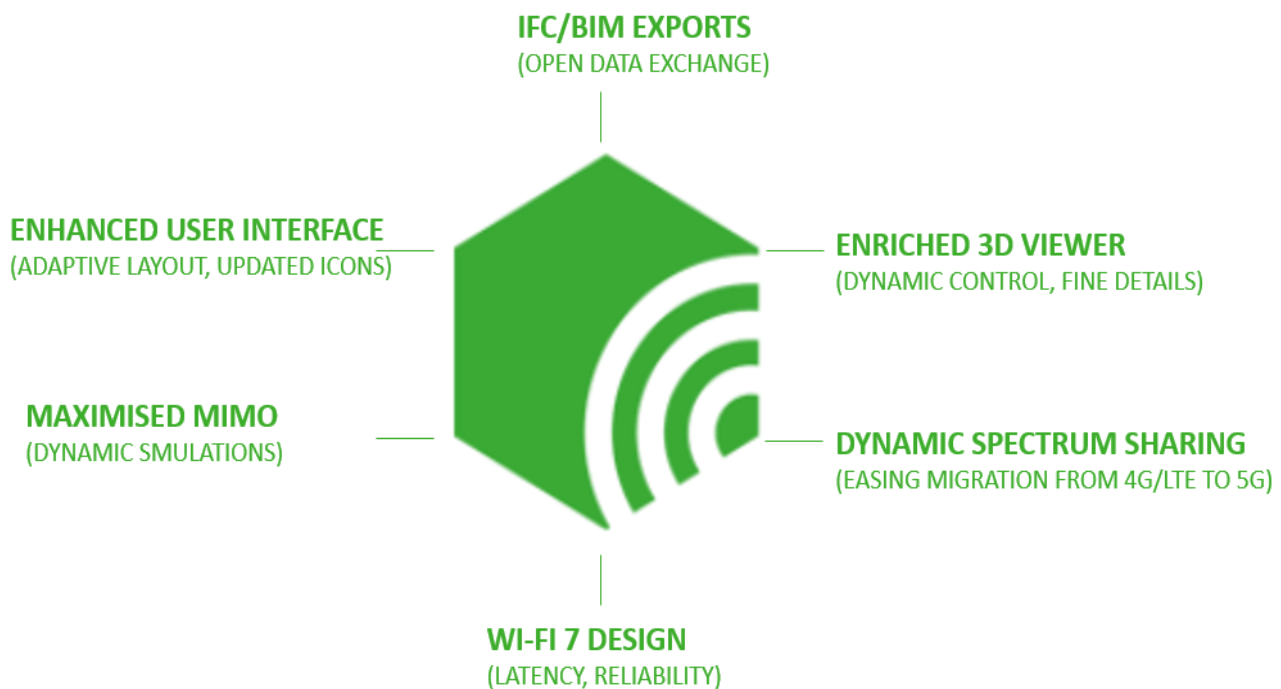
Ranplan 7.0 – pushing the boundaries of advanced capabilities

At the end of July, Ranplan launched the latest version of its flagship product (**7.0**), featuring a completely revamped User Interface (UI), a significantly upgraded 3D viewer, and, as an industry first, support for Industry Foundation Classes (IFC)/Building Information Modelling (BIM) exports of data (including heatmaps, building models, network components) from our tools. This new feature greatly enhances interoperability with 3rd-party tools and aims to advance the scope of digital twins to include radio propagation in modelling.

This release is set to elevate users’ collaborative efforts by facilitating the sharing of 3D network plans, enabling a smooth transition to cutting-edge technologies, and optimising network systems for peak capacity performance. Complemented by an upgraded user interface designed to bolster network planning productivity, version 7.0 sets an entirely new standard for operational efficiency and innovation.

Harnessing effective collaboration is imperative to ensuring maximum network performance, design productivity and ultimately project profitability as the wireless industry begins to tap the growth potential inherent in the most advanced use cases, where the benefits of 5G and Wi-Fi 7 make a true difference.

RANPLAN 7.0 – THE MOST SIGNIFICANT RELEASE IN RECENT YEARS



Ranplan 7.0 is built with the user perspective at its focal point. Our latest incarnation of state-of-the-art software tools offers concrete advancements across several domains, enabling network planners to achieve higher quality, optimise use of network resources and meet exacting technical and operational requirements.

As network owners seek to take full advantage of 5G and Wi-Fi 7 for in-building and/or HetNet scenarios Ranplan – catering to customers’ inherent needs and wants – has the tools to engender successful outcomes.

Enhanced User Interface

- The user-friendly design, with options for both light and dark interfaces, significantly reduces the learning curve, making the software accessible and easy to use for new and experienced users.

IFC/BIM Exports

- Breaking new grounds, Ranplan 7.0 comes armed with the ability to export files in adherence to the Industry Foundation Classes (IFC) format, facilitating exchange and reuse of critical data sets.

Enriched 3D Viewer

- Users will experience finer details in true 3D modelling with enhanced textures, colours, and transparency. Dynamic control enables adjustment to layers, materials, objects etc. in real-time. Background images, whether in the form of a cityscape or a floor plan, can easily be incorporated.

Dynamic Spectrum Sharing (DSS)

- R 7.0 enables **DSS**, a key feature of cellular networks that makes it possible to carry out a phased and optimised migration of infrastructure and spectrum from 4G (LTE) to 5G (and 5G Advanced).

WiFi 7 Design

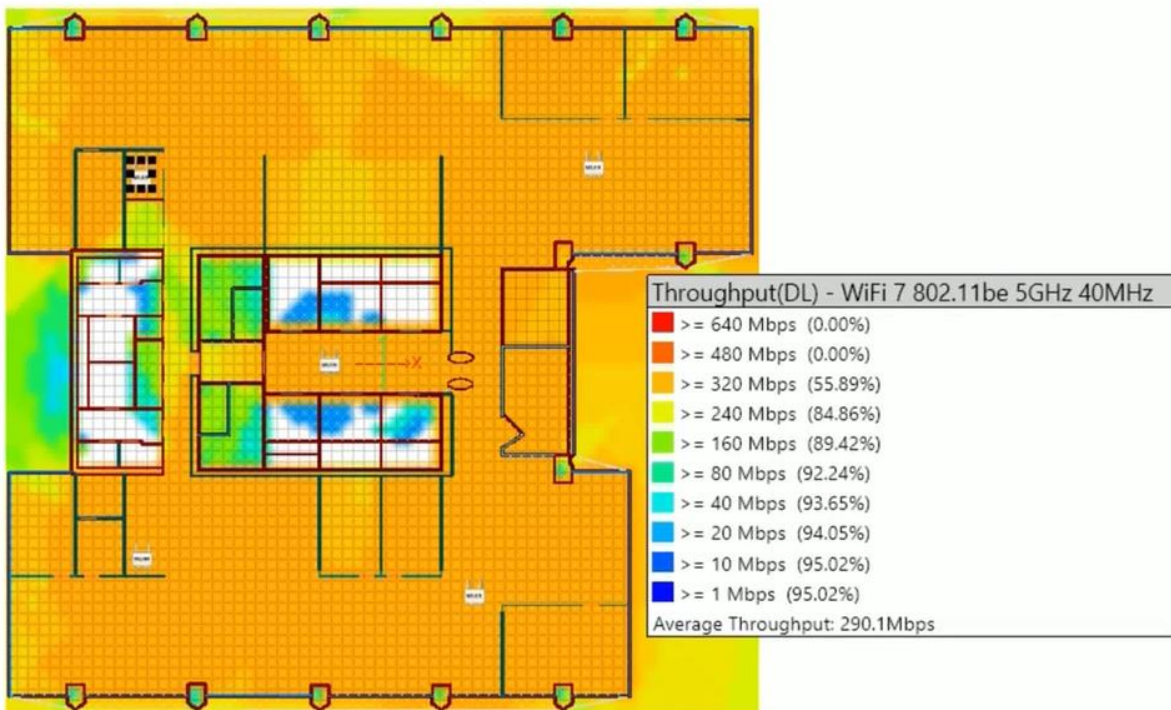
- R 7.0 supports **Wi-Fi 7**, the latest and most advanced Wi-Fi standard, allowing customers to take full advantage of the faster data rates and increased capabilities inherent in 802.11be technology.

Maximised MIMO

- The novel MIMO Mode automatically configures MIMO systems for optimum performance: 3D simulations bring enhanced capacity for handling varying traffic loads and environmental factors.

As network owners seek to take full advantage of 5G and Wi-Fi 7 for in-building or HetNet scenarios Ranplan – catering to users’ real needs and wants – has the tools to engender successful outcomes.

Wi-Fi 7 5GHz, 40MHz CW, 4x4 MIMO



Financial statements

In this section, data related to the consolidated Ranplan Group AB and its Parent are presented. Please note that the parent company of the Group, Ranplan Group AB was registered on 14 March 2018. After shifting to a half year reporting cycle in September 2019, the Company does not break down its financial performance by quarter. All comparisons in this section are made on a six- or twelve-months basis.

For the sake of clarity, the term Total Income, comprising net sales (from commercial products and services), other income (from research projects) and other operating income (from R&D tax credits) is used to reflect all sources of income (and by extension receipt or expected future receipt of cash). Gross profit is measured as the absolute difference between Total Income and Cost of sales with the gross margin calculated as the ratio between gross profit and Total Income. Operating expenses (“OPEX”) consists of expenditures associated with *Research and Development* (abbreviated as “R&D”), *Sales and Marketing* (“S&M” or “Sales costs”) and *General and Administration* (“G&A” or “Administration costs”).

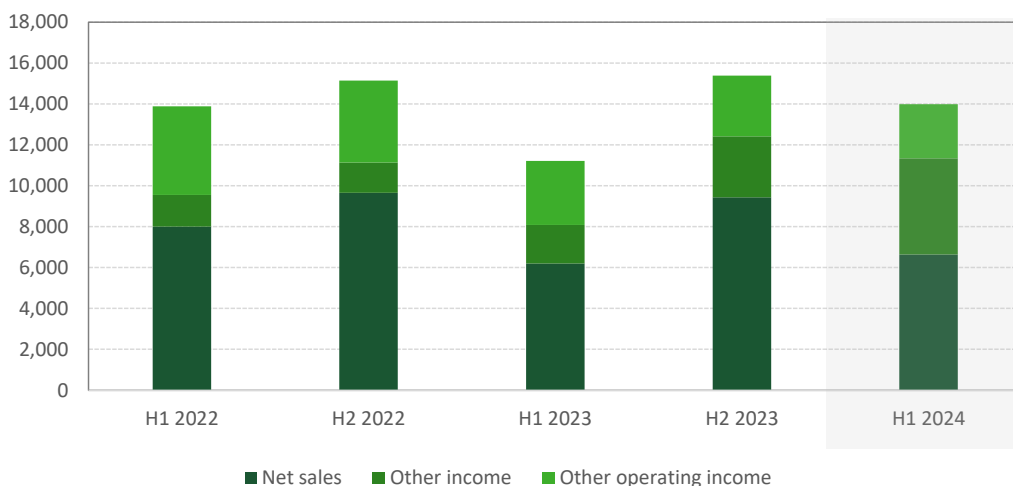
Comments on the H1 2024 results

Income Statement

In the first six months of 2024, total income amounted to SEK 14.0 million, 25% higher than in the corresponding period of 2023. The marked increase is chiefly attributable to Other Income (research projects) which produced 150% growth on the back of a sharp rise in the inflow of new projects and, predictably, other operating income, i.e. tax credits (down 20%). Movements of foreign exchange, modest in comparison with the situation in 2022 and 2023, had quite a negligible impact on the numbers.

Total income by half-year period

(SEK 000s)



The gross margin – measured here as the ratio of gross profit and total income – held relatively steady at 100%, mirroring the nearly pure software licensing model of the Company’s commercial operations (in periods with no or hardly any resale of third-party products or services – activities which otherwise are bound to add noticeable to the reported cost of sales and hence also visibly impact the gross margin).

Research and development expenditures fell to 11.5 million in the first half of 2024 (SEK 16.5 million in the first half of 2023). All forms of R&D are expensed as liabilities are incurred (no capitalisation takes place, making the balance sheet free of intangible assets and the income statement of amortisation).

Expenses related to sales and marketing (“Sales costs”) at SEK 3.6 million contracted markedly versus the year-earlier and half-year-earlier periods. The material decrease is attributable largely to staff reduction. Costs associated with general and administrative functions at SEK 4.8 million held relatively stable compared with the corresponding period 2023. A minor increase is expected in the second half of 2024.

Charges associated with restructuring or other events that could be viewed as non-recurring are treated as a normal part of ongoing operations. Hence, there is no adjustments to the stated figures in this report.

Other operating income/expenses, which does include the FX-translation impact on receivables (current assets) and payables (current liabilities) as well as local tax charges, amounted to SEK 0.3 million with considerably less an impact on the report results than in the first (SEK 1.0 million) and second half of 2023 (-SEK 1.0 million). Please note that this line item can be construed as a balance sheet adjustment.

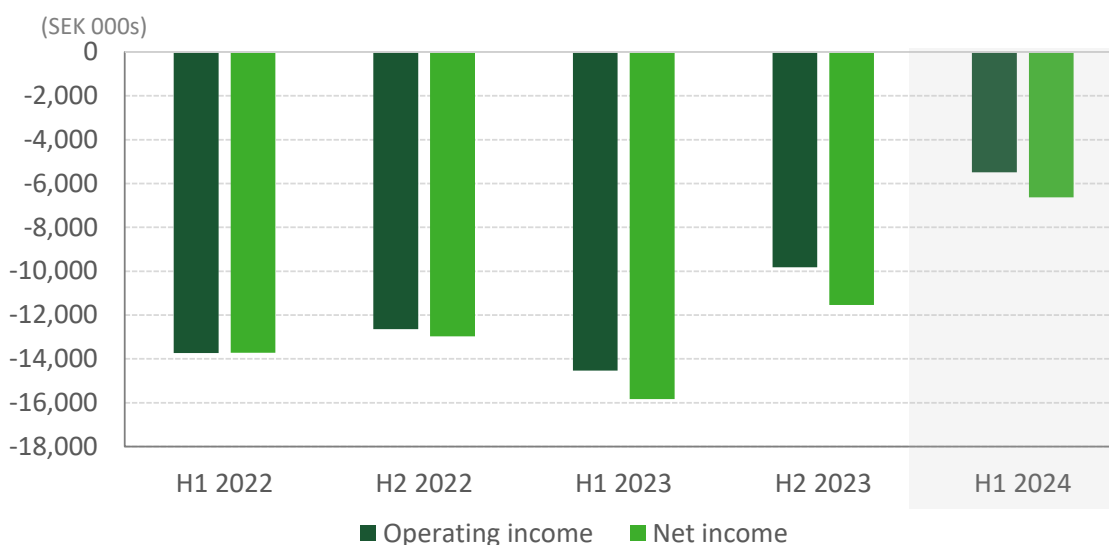
Reported losses from operations of SEK 5.5 million were 62% lower than registered in the first six months of 2023. A combination of higher gross profits and lower operating expenses underpins the improvement.

Financial income and expenses, attributable almost solely to accrued interest on loans related to the credit line (denominated in the reporting currency, SEK), amounted to -SEK 1.1 million, less a burden on net income than in the first half (-SEK 1.3 million) and the second half (-SEK 1.7 million) of 2023.

With no provision for taxes, net income – equalling pre-tax income - amounted to a -SEK 6.6 million, signifying a pronounced loss reduction from -SEK 15.8 million in H1 2023 and -SEK 11.5 million in H2 2023.

N.B. Other Operating Income represents the tax credit that is estimated to be paid by the UK government to support Ranplan Wireless’ R&D activities. These estimates are subject to judgements. In the first half of 2024, around SEK 6.3 million related to such grants were collected. At the end of June 2024, the Company carried tax credit receivables of c. SEK 2.7 million attributable to H1 2024 on its balance sheet.

Operating and net income by half-year period



“Losses from operations in the first half of 2024 were the lowest in the company’s history as a listed entity”

Balance Sheet

At the end of June 2024, shareholders' equity amounted to -SEK 13.2 million compared with -SEK 15.0 million at the end of June and -SEK 6.5 million at the end of December 2023. Shareholders' equity should be judged on the basis that no visible value is attached to either the patent portfolio or R&D investments – factors that, all else equal, should contribute positively to the Company's ability to generate free cash flow. Since the beginning of 2017, the Company has invested well over SEK 200 million in research and development, equivalent to nearly USD 20 million at current exchange rates. This figure represents more than eight times (8x) total assets reported on the balance sheet as of the end of first half of 2024. Until the company can demonstrate ability to generate profits, losses carried forward are not capitalised.

At the end of the first half, gross cash amounted to SEK 2.4 million. Net current assets, the difference between current assets and current liabilities, included gross cash on the balance sheet, amounted to -SEK 13.2 million at the end of the period, a sharp decrease from SEK 7.5 million at the end of 2023. The decline is almost entirely caused by a re-classification of outstanding debt from non-current to current liabilities. Adjusted for this technical factor, net current assets would have amounted to SEK 6.6 million. Gross debt of SEK 19.8 million left SEK 30.2 million of the credit line (total of SEK 50 million) unutilised.

The balance sheet remains completely free of fixed assets, even though, as documented in the income statement, ambitious investments in research and development are made. As a result, no charges associated with amortisation and depreciation are expected to be incurred for the foreseeable future. This also implies that there is no difference between reported operating income before and after depreciation and amortisation, nor with cash flow from operations before movements of working capital.

Balance sheet summary

SEK 000s	30 JUN 2022	31 DEC 2022	30 JUN 2023	31 DEC 2023	30 JUN 2024
Gross cash	3,949	5,072	11,577	1,494	2,444
Gross debt	0	11,330	29,881	14,090	19,799
Net cash	3,949	-6,258	-18,304	-12,596	-17,355
Current assets	20,955	20,232	23,633	16,233	12,365
Current liabilities	7,157	8,080	8,767	8,692	25,542
Fixed assets	0	0	0	0	0
Shareholders' equity	13,798	806	-15,015	-6,549	-13,178

Personnel

The number of employees, excluding contractors, in the Group was 41 at the end of June 2024, down from 43 at the end of December 2023. With inclusion of contractors, the headcount encompassing all members of staff stood at 45 at the end of June 2024 (versus 49 at the beginning of the calendar year).

External environment

The company will continue to adapt to changes in the external environment of any materiality. In the space of the last four years, it has coped with the effects of (i) uncertainties related to Brexit (formalised in January 2020), (ii) restrictions associated with the COVID pandemic (which broke out in earnest in February/March 2020 and lasted until the end of 2022 in mainland China), (iii) the expanded war in Ukraine (which prompted the company to pause business activities in Russia), (iv) component shortages (restraining customers' operational activities) and, not to overlook, (iv) inordinate inflationary pressures prompting central banks to take extreme measures to dramatically increase the cost of capital (which has negative implications for the investment plans of telecom carriers and their ecosystems of partners),

as well as (v) significant foreign exchange changes adversely affecting reported income from operations. At this juncture, heightened geopolitical tension constitutes a factor that may have considerable effects.

Risk factors

The Ranplan Group is exposed to several global and Group specific risks that can impact operations and the financial performance, as well as the financial position of the Group. The foreseeable risks are identified and monitored centrally on the basis of established policies. Risk management in the Group aims at positioning the Group to be able to correctly respond to events that may pose dangers and threats to its well-being. Below is a non-exhaustive list of risks, without regard to their level of significance, which the Group consider to be material.

Further details can be found in the IPO prospectus and Annual Reports available on the Group's website.

- ◆ Financing (through a variety of channels)
- ◆ Key personnel (experts and managers)
- ◆ Product development, quality and perception
- ◆ Competition (from existing and new contenders)
- ◆ Customers (delays, requirements, acceptance criteria etc)
- ◆ Intellectual property and business secrets
- ◆ The market price of the company's shares
- ◆ Support in the form of tax credits from UK authorities

Group consolidated accounts

GROUP INCOME STATEMENT (KSEK)	H1 2023	H2 2023	H1 2024	L12M
Operating income				
Net sales (commercial products)	6,201	9,441	6,635	16,076
Other income (research)	1,882	2,978	4,704	7,682
Other operating income (tax credits)	3,135	2,968	2,656	5,624
Total income	11,217	15,387	13,995	29,382
Cost of sales	-45	-1,535	-34	-1,569
Gross profit	11,172	13,852	13,960	27,813
Research and development	-16,459	-12,786	-11,491	-24,277
Sales costs	-5,171	-4,619	-3,557	-8,175
Administration costs	-5,055	-5,253	-4,755	-10,008
Other income/expenses	976	-1,019	348	-671
Operating profit	-14,536	-9,825	-5,494	-15,319
Financial items				
Financial income and expenses	-1,301	-1,709	-1,135	-2,844
Total financial items	-1,301	-1,709	-1,135	-2,844
Income after financial items	-15,838	-11,534	-6,629	-18,163
Tax	0	0	0	0
Net income for the period	-15,838	-11,534	-6,629	-18,163

GROUP BALANCE SHEET (KSEK)	30 JUN 2023	31 DEC 2023	30 JUN 2024
Assets			
Fixed assets			
Tangible fixed assets			
Equipment, tools, fixtures and fittings	0	0	0
Total fixed assets	0	0	0
Current assets			
Accounts receivable - trade	4,056	5,618	3,805
Other current receivables	3,638	6,161	2,792
Prepaid expenses and accrued income	4,362	2,960	3,323
Total current receivables	12,056	14,739	9,921
Cash and bank balances			
Cash and bank	11,577	1,494	2,444
Total current assets	23,633	16,233	12,365
Total assets	23,633	16,233	12,365
Equity and liabilities			
Equity			
Share capital	1,218	1,885	1,885
Share premium reserve	133,528	152,861	152,861
Other capital, translation differences and result for the period			
Other capital, translation differences, result	-149,760	-161,294	-167,923
Equity attributable to owners	-15,015	-6,549	-13,178
Total equity	-15,015	-6,549	-13,178
Non current liabilities			
Long term loan	29,881	14,090	0
Current liabilities			
Loan term loan	0	0	19,799
Accounts payable - trade	1,150	1,262	829
Other current liabilities	2,049	2,209	1,592
Accrued expenses and deferred income	5,567	5,222	3,322
Total current liabilities	8,767	8,692	25,542
Total equity and liabilities	23,633	16,233	12,365

GROUP CHANGES IN EQUITY	SHARE CAPITAL	OTHER PAID-IN CAPITAL	RETAINED EARNINGS	TOTAL EQUITY
Starting balance 2023-12-31	1,885	152,861	-161,294	-6,549
Net income for the period			-6,629	-6,629
Ending balance 2024-06-30	1,885	152,861	-167,923	-13,178

GROUP CASH FLOW STATEMENT (KSEK)	H1 2023	H2 2023	H1 2024	L12M
Operating activities				
Operating result	-14,536	-9,825	-5,494	-15,319
Issue costs	0	0	0	0
Adjustment for depreciation	0	0	0	0
Paid interest	0	0	0	0
Cash flow before working capital movements	-14,536	-9,825	-5,494	-15,319
Change in trade receivables	-1,082	-1,562	1,813	251
Change in current receivables, accrued income	4,186	-1,121	3,006	1,885
Change in trade payables	-416	112	-433	-321
Change in current liabilities excluding loan	1,103	-186	-2,516	-2,702
Cash flow from operating activities	-10,745	-12,582	-3,625	-16,206
Investing activities				
Acquisition of tangible assets	0	0	0	0
Acquisition of subsidiaries	0	0	0	0
Cash flow from investing activities	0	0	0	0
Financing activities				
Proceeds from loans	17,250	2,500	7,250	9,750
Repayment of loans	0	0	-2,676	-2,676
Proceeds from issues of shares and warrants	0	0	0	0
Cash flow from financing activities	17,250	2,500	4,574	7,074
Cash flow of the period	6,505	-10,082	949	-9,132
Cash at the beginning of the period	5,072	11,577	1,494	11,577
Exchange rate differences, other effects	1	-1	1	0
Cash and equivalents at period end	11,577	1,494	2,444	2,444

Notes to the consolidated financial information

Summary of significant accounting policies.

This interim report has been prepared in accordance with the Annual Accounts Act and the Swedish Accounting Standards Board's general regulations BFAR 2012:1 Annual Report and Consolidated Financial Statements (K3).

Important estimates and judgments regarding the accounting

Estimates and judgments are evaluated on an ongoing basis and are based on historical experience and other factors, including expectations regarding future events which are seen to be reasonable under the circumstances in place.

The Company's management deems that there is no significant information or judgment in the accounts regarding future developments or other important sources of uncertainty in the estimates undertaken at balance sheet date which would imply a significant risk of a major adjustment in the reported values of the assets and liabilities during the foreseeable future.

Share Data

Following completion of the set-off issue in December 2023, the number of outstanding shares in the Company amounts to 47,118,242. On 30 June 2024, a total of 1.895 million warrants, all of which predicated on an exercise price of SEK 20.60 per share, had been sold at fair value (Black and Scholes) to members of staff. In the event that the exercise price were to be surpassed, the maximum dilution of relevant per share data would amount to 3.9%.

Share Data (including warrants)

At end of period	31 Dec 2020	31 Dec 2021	31 Dec 2022	31 Dec 2023
Number of shares (000s)	24,138	30,438	30,438	47,118
Number of 2022 warrants (000s)	815	815	0	0
Number of 2023 warrants (000s)	985	985	985	0
Number of 2024 warrants (000s)	0	965	965	965
Number of 2025 warrants (000s)	0	0	930	930
Total number of warrants (000s)	1,800	2,765	2,880	1,895
Share price at end of period (SEK)	7.7	8.0	1.6	1.0

Development of the number of shares outstanding and equity raised (SEK)

Number of Shares	Event	New Shares	Total Number	Price/share	Equity raised
Mar-18	Pre-listing	NA	14,098,394	NA	NA
Jun-18	Listing	6,017,418	20,115,812	SEK 10.30	61,979,405
Oct-20	Set-Off Issue	4,022,430	24,138,242	SEK 7.92	31,857,646
Sep-21	Directed Issue	3,400,000	27,538,242	SEK 8.20	27,880,000
Oct-21	Set-Off Issue	2,900,000	30,438,242	SEK 8.20	23,780,000
Dec-23	Set-Off Issue	16,680,000	47,118,242	SEK 1.20	20,000,000

Issues of new shares

Since the listing of Ranplan Group AB on NASDAQ First North on 28 June 2018 (at a subscription price of SEK 10.30), the number of outstanding shares has risen by 134% from 20,115,812 to 47,118,242 through a Directed Issue (September 2021) and three Set-Off Issues (October 2020, October 2021, December 2023).

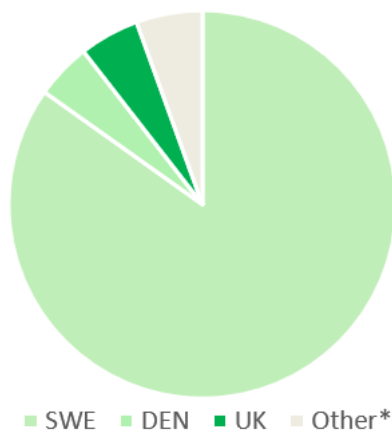
Shareholding

Based on publicly available information from Euroclear (as of 31 December 2023) and known transactions thereafter, Per Lindberg, the CEO, controls 81.1% of all outstanding shares and votes, followed by the two principal founders, Jie Zhang and Joyce Wu, who in their capacities as respectively Chief Scientific Officer and Chief Operating Officer belong to core members of the Senior Management Team, at a combined 4.4%. From a residence perspective, at least 85.0% of the shares are controlled by individuals or organisations in Sweden, at least 5.0% by individuals or organisations in the UK and at least 4.6% by individuals or organisations in Denmark (note in this respect that *Other* shareholders comprise multiple residences).

Shareholders as of 30 June 2024*	No of shares	Ownership	Residence
Per Lindberg	38,215,825	81.1%	Sweden
Jie Zhang and Joyce Wu	2,067,996	4.4%	UK
St Petri Capital	1,000,000	2.1%	Denmark
Fredrik Lundgren	890,205	1.9%	Sweden
Wilhelm Risberg	865,403	1.8%	Sweden
Sydbank A/SW8IMY	687,075	1.5%	Denmark
Else og Erik Sorensens Familiefond	500,000	1.1%	Denmark
Other	2,891,738	6.1%	
Total	47,118,242	100%	100%

*On 30 June 2024, 1.895 million warrants, exercisable at SEK 20.60 were outstanding

Distribution of residence of shareholders*



*figures for Sweden, Denmark and the UK are represented as *Other** encompass all potential countries.

Public Cash Offer

This section contains a condensed summary of Public Bid that Per Lindberg, the CEO, has made as a direct consequence of his reaching and subsequently surpassing 30% of all outstanding shares in Ranplan Group AB. For more information, please refer to the link below (in Swedish only):

[Per Lindberg lämnar, via helägt bolag, ett kontant budpliktsbud till aktieägarna i Ranplan Group AB - Goldcup 34506 AB \(cision.com\)](#)

Background information and timeline of events

- On 8 December 2023, an Extraordinary General Meeting (EGM) held in Stockholm resolved to carry out the Set-off Issue proposed by the Board of Directors, see press release of that date.
- On 18 December 2023, the Set-Off Issue was approved by the Swedish Companies Registration Office (“Bolagsverket”), triggering the Public Bid Rule (“Budplikt”) on Nasdaq First North.
- In January 2024, before the Public Bid was declared, Per Lindberg acquired a further 11,092,624 shares at a price of SEK 1.20 per share from shareholders residing outside the EES and therefore own 36,903,624 shares, corresponding to 78.32 percent of all shares and votes in the Company.
- On 15th January 2024, Per Lindberg, via a wholly owned company, made a Public Cash Offer. The Offer Price is SEK 1.20 for each share in Ranplan Group AB.
- The Swedish Security Council (“Aktiemarknadsnämnden”) offered Per Lindberg an exemption from the requirement to provide the Offer to shareholders residing outside the EES (AMN 2024:03).
- On 19th February 2024, Per Lindberg, via a wholly owned company, made public the Offer Document regarding the mandatory bid for Ranplan Group AB.
- On 4th March 2024, the Board of Directors of Ranplan Group AB published a statement regarding Per Lindberg BidCo’s Public Cash Offer.
- On 20th March 2024, Per Lindberg Bid Co AB published the outcome of the concluded mandatory bid for Ranplan Group AB.

Comments on the Parent Company's financial statements

Parent Company Financial Statements

The accounts set out below relate to the Group Parent Company Ranplan Group AB which was registered in March 2018 and which is the sole owner of all Ranplan operating companies, see organisational chart.

Income Statement

The administration expenses relate to members of the Board, the Chief Executive Officer as well as other costs required to operate the NASDAQ First North Company in accordance with applicable rules. R&D costs concern management of such activities on a global basis.

Balance Sheet

The shares in subsidiaries represent the cost of acquiring the activity of Ranplan Holdings Ltd. Group receivables represent advances made to Group subsidiaries to fund their operations.

Changes in Equity

The movements in equity are caused by net income, as well as net of infusion of cash where applicable.

PARENT COMPANY INCOME STATEMENT (KSEK)	H1 2023	H2 2023	H1 2024
Operating income			
Net sales	4,408	4,189	3,229
R & D costs	-672	-652	-718
Administration costs	-2,379	-2,001	-2,135
Operating income	1,223	1,669	376
Financial income and expense	-1,301	-1,709	-1,135
Income before taxes	-78	-40	-759
Net income for the period	-78	-40	-759

PARENT COMPANY BALANCE SHEET (KSEK)	30 JUN 2023	31 DEC 2023	30 JUN 2024
Assets			
Non current assets			
Receivables from Group Companies			
Shares in subsidiaries	3,396	3,396	3,396
Total investments	3,396	3,396	3,396
Current assets			
Receivables from Group Companies	162,059	165,872	170,144
Accounts receivable - trade	0	790	497
Other receivables and prepayments	202	97	119
Cash and bank balances	856	102	27
Total current assets	163,117	166,860	170,786
Total assets	166,513	170,256	174,182
Equity and liabilities			
Restricted equity			
Share capital	1,218	1,885	1,885
Non-restricted equity			
Share premium reserve	133,528	152,861	152,861
Retained earnings	-1,533	-1,533	-1,651
Net income	-78	-118	-759
Total non-restricted equity	131,917	151,209	150,451
Total equity	133,134	153,094	152,336
Current liabilities			
Loan	0	0	19,799
Accounts payable - trade	0	4	0
Other payables	189	137	132
Accrued expenses	3,309	2,932	1,916
Total current liabilities	3,498	3,072	21,847
Loan	29,881	14,090	0
Total liabilities	33,379	17,162	21,847
Total equity and liabilities	166,513	170,256	174,182

PARENT COMPANY CHANGES IN EQUITY KSEK	SHARE CAPITAL	OTHER PAID-IN CAPITAL	OTHER EQUITY	TOTAL EQUITY
Starting balance 2023-12-31	1,885	152,861	-1,651	153,094
Net income for the period			-759	-759
Ending balance 2024-06-30	1,885	152,861	-2,410	152,336

PARENT COMPANY CASH FLOW STATEMENT (KSEK)	H1 2023	H2 2023	H1 2024
Operating activities			
Operating income	1,223	1,669	376
Issue costs	0	0	0
Interest received	0	0	0
Interest paid	0	0	0
Cash flow before working capital movements	1,223	1,669	376
Change in current assets	-19,763	-4,497	-4,000
Change in current liabilities	2,054	-426	-1,024
Change in other liabilities	0	0	0
Cash flow after working capital movements	-16,486	-3,254	-4,648
Financing activities			
Proceeds from loan	17,250	2,500	7,250
Repayments of loans	0	0	-2,676
Cash flow from financing activities	17,250	2,500	4,574
Cash flow of the period	764	-754	-74
Brought forward	95	856	102
Other effects	-3	2	-1
Cash and equivalents at period end	856	102	27

Abbreviations, Definitions and Terminologies

Total Income comprises the sum of

Net sales (related to commercial products and services),
Other income (emanating from research projects) and
Other operating income (drawn from R&D tax credits)

Gross profit is here defined as the difference between Total income and cost of sales.

Gross margin is here defined as the ratio between gross profit and Total Income.

Other operating income emanates from R&D qualified tax credits offered by the UK government in support of advances of science and technology.

Depreciation: Ranplan does not capitalise its own, or, for that matter, 3rd party software or hardware (such as laptops, desktops, servers). The only fixed assets on the balance sheet relate to office equipment which are written off over 24 months.

Amortisation: As no R&D expenditures are capitalised, there are no intangible assets held on the balance sheet. Consequently, no amortisation of intangible assets is being made.

Income tax: Ranplan does not incur income tax at this juncture. On sales to certain countries, the buyer deducts a withholding passed to its local government. These withholdings may be recovered in future (in the case of which reversals occur). The withholding tax is part of other expenses in the income statement.

EBITDA: Operating income (often abbreviated EBIT – earnings before interest and tax) in the income statement is almost identical to EBITDA, earnings before interest, tax, depreciation and amortisation.

Abbreviations

R&D: Research and Development

S&M: Sales and Marketing

G&A: General and Administration

OPEX: Operating Expenditures

D&A: Depreciation and Amortisation

Gross profit: gross margin x total income

EPS: Earnings per share

AI: Artificial Intelligence

ML: Machine Learning

IPR: Intellectual Property Rights

OSS: Operations Support Systems

Company Description

Ranplan Group AB with its wholly owned subsidiaries is a software company that develops and markets a suite of solutions that allow mobile network operators, telecommunication equipment vendors, neutral hosts, enterprises and system integrators to cost effectively and accurately plan, design and optimise 4G (LTE), 5G and Wi-Fi wireless networks inside the walls of buildings and in outdoor urban environments.

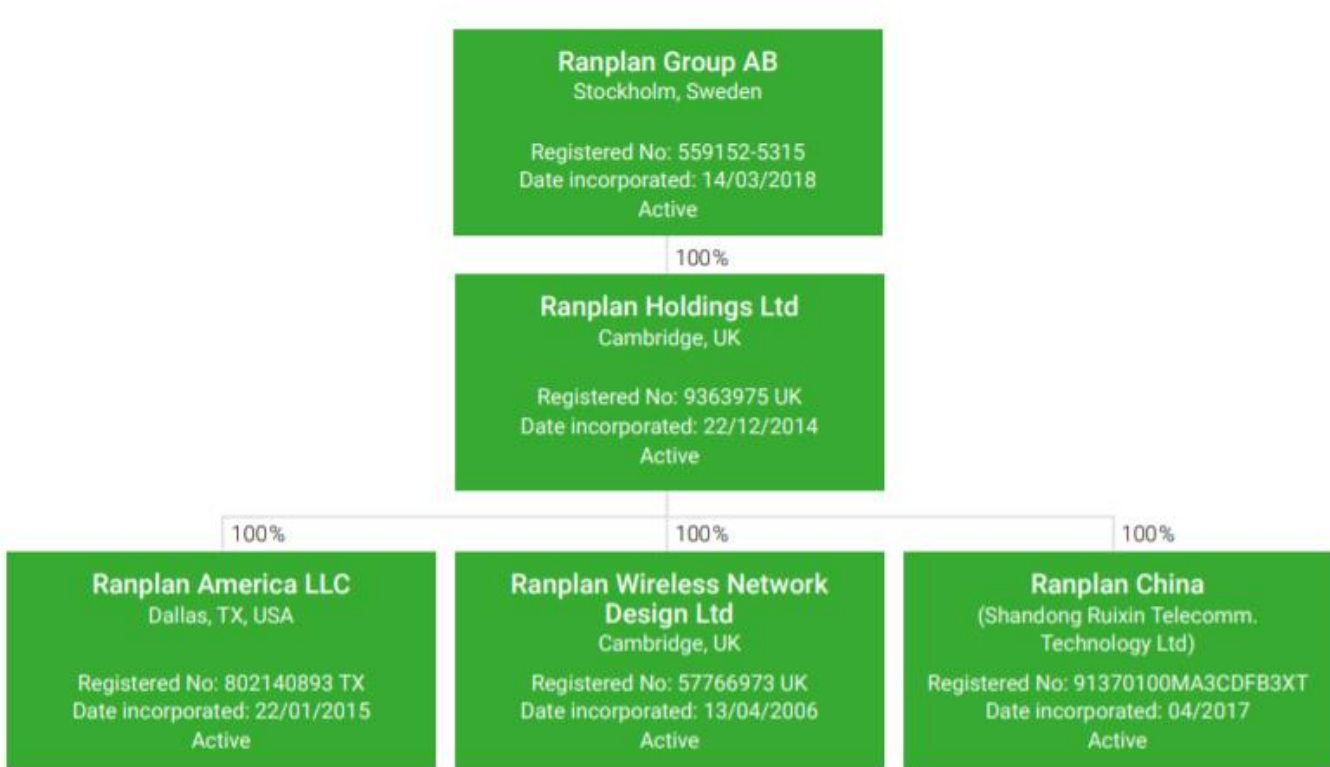
The purpose of an in-building wireless network is to provide enhanced network coverage and/or capacity when the existing outdoor network is not able to adequately satisfy the exacting requirements. Coverage may be poor due either to high penetration losses caused by the building structure or the materials used that are designed to improve the thermal performance of the building. In dense urban environments, adjacent buildings may create an RF barrier that blocks coverage from nearby outdoor networks. Tall buildings typically have poor coverage on upper floors since outdoor antennas, many floors below, are specifically designed to suppress energy radiating above the horizon. Capacity may be an issue in venues such as stadia and convention centres where many thousands of users may be trying to simultaneously access the network, causing severe congestion.

Today, over 80 % of mobile data traffic is generated in buildings with only approximately 2% of commercial buildings having a dedicated in-building (cellular) wireless network. Research also shows that in-building wireless networks could increase the value of the property by 28 % on average. With the roll out of 4G (LTE) and 5G technologies, the need to construct in-building wireless networks has increased and will continue to increase.

Ranplan's operational ambition is to increase its position in the fast-emerging wireless market by providing quality software to enable mobile operators and telecommunications equipment vendors to plan wireless networks more accurately and cost effectively. While the nature of the company's operations entail that its results are likely to vary markedly between reporting periods, Senior Management will continue to prioritise the creation of lasting industrial value.

Ranplan Group AB has been listed on Nasdaq First North Stockholm since June 2018, trading with the ticker RPLAN, ISIN: SE0011178201. It is the parent company of the Group with the following wholly-owned subsidiaries: (i) Ranplan Holdings Ltd (UK), (ii) Ranplan Wireless Network Design Ltd (UK), (iii) Ranplan China (Shandong, Ruixin Telecomm. Technology Ltd, China), and (iv) Ranplan America LLC (Dallas, Texas, USA). All votes and shares in the subsidiaries are held by companies within the Group.

Organisational Chart



The Board of Directors and CEO hereby assure that this interim Report for the first half of 2024 provides a true and fair overview of the performance of the parent company’s and the Group’s operations, financial position and earnings, and that it describes the significant risks and factors of uncertainty to which the Parent Company and the companies included in the Group are exposed.

The English version of this report takes precedence over any other representation, should any differences be found. Stockholm, 16 August 2024

Stockholm 16 August 2024

Joyce Wu, Chairperson of the Board

Jan Häglund, Board member

Jon Ullmark, Board member

Per Lindberg, CEO

Other information

Auditor's review

This interim report has not been reviewed by the company's auditors.

2023 Annual General Meeting

The Annual General Meeting was held on 3 May 2024 in Stockholm, Sweden.

Certified Adviser

FNCA Sweden AB

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Questions regarding this interim report are answered by:

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Financial calendar – provisional dates in 2025

Friday 17 February 2025: Annual Statement for 2024

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Date: 16 Aug 2024