

ESG insight



IAR SYSTEMS

Back to business

IAR Systems' ability to sign one of its largest-ever deal during a global pandemic demonstrates: 1) solid execution; 2) the relative resilience of its business model; and 3) that its offerings are mission-critical for clients, with large OEMs increasingly standardising using its development tools. Underlying, we have raised our 2021–2022e EPS by 12%, although this is more than offset by a 16% FX headwind. We have also raised our fair value to SEK180–250 (SEK150–230).

Strategic customers drive Q2 beat. Sales were SEK100m (15% above our forecast), corresponding to -1% organic growth (we expected -16%), providing testament to the company's resilience, as large strategic OEM customers have maintained their design activity despite Covid-19. We are encouraged that security sales ramped up slightly in Q2 for the first time, which we will continue to monitor in H2. EBIT of SEK25m (25% margin) beat our forecast by 46%, suggesting tight cost control, although capitalised development costs boosted EBIT by SEK20m. FCF of SEK21m impressed (up 103% YOY), as FCF generation has historically been a hallmark.

Outlook comments. While OEM customers are unlikely to halt design projects, management said it expects some delays to client upgrades in its transactional model (~80% of sales), while the CEO indicated strong uptake going into Q3. Industry groups and government agencies are increasingly building legislative frameworks (most recently ETSI's consumer IoT standard) to integrate device security and help OEMs protect IPs and prevent overproduction. This ensures only secure and signed code can run on their devices, acting as a tailwind for adoption of IAR System' security solutions, in our view.

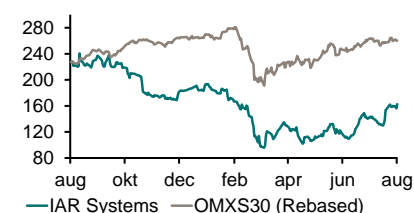
FX means we have cut our 2021–2022e EBIT by 4%, with 12% increases more than offset by a 16% FX headwind from a stronger SEK.

Our fair value of SEK180–250 corresponds to a 2022e EV/EBIT of 19x and P/E of 26x (a 10% discount to its historical average). We believe reignited growth from new product launches needs to fuel a change in sentiment towards the company to re-establish its credentials as a growth story before IAR Systems can realise its full valuation potential.

Year-end Dec	2016	2017	2018	2019	2020e	2021e	2022e
Revenue (SEKm)	328	345	385	406	395	447	506
EBITDA adj (SEKm)	113	127	140	146	138	172	211
EBIT adj (SEKm)	101	107	119	108	90	119	152
PTP (SEKm)	100	106	117	107	88	117	149
EPS rep (SEK)	6.18	6.33	6.67	5.96	4.88	6.48	8.28
EPS adj (SEK)	6.18	6.33	6.67	5.96	4.89	6.48	8.28
DPS (SEK)	7.00	5.00	5.00	3.00	1.50	2.44	3.24
Revenue growth (%)	5.4	5.1	11.7	5.3	-2.7	13.4	13.0
EBITDA growth adj (%)	15.2	12.4	10.1	4.1	-5.6	25.2	22.5
EPS growth adj (%)	23.0	2.6	5.3	-10.6	-18.0	32.6	27.7
EBITDA margin adj (%)	34.5	36.9	36.4	35.9	34.9	38.5	41.7
EV/Sales adj (x)	7.63	6.58	8.32	6.30	5.60	4.90	4.26
EV/EBITDA adj (x)	22.1	17.8	22.9	17.5	16.1	12.7	10.2
EV/EBIT adj (x)	24.9	21.1	27.0	23.6	24.6	18.4	14.1
P/E adj (x)	33.4	29.8	36.4	31.2	33.3	25.1	19.6
P/Book (x)	9.31	8.22	6.02	4.28	3.58	3.29	2.99
ROE (%)	27.3	28.1	21.6	14.2	11.0	13.7	15.9
ROCE (%)	34.9	33.6	26.1	17.7	12.6	15.2	18.0
Dividend yield (%)	3.4	2.6	2.1	1.6	0.9	1.5	2.0
FCF yield (%)	3.7	3.6	1.4	0.9	1.6	2.3	3.8

Source: Company (historical figures), DNB Markets (estimates)

IARB versus OMXS30 (12m)



Source: Factset

SUMMARY

Share price (SEK)	163
Tickers	IARB SS, IARB.ST

CAPITAL STRUCTURE

No. of shares (m)	13.6
No. of shares fully dil. (m)	13.7
Market cap. (SEKm)	2,216
NIBD adj end-2020e (SEKm)	-6
Enterprise value adj (SEKm)	2,210
Net debt/EBITDA adj (x)	-0.05
Free float (%)	100

Source: Company, DNB Markets (estimates)

NEXT EVENT

Q3 2020	05/11/2020
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ESTIMATE CHANGES (SEK)

Year-end Dec	2020e	2021e	2022e
Sales (old)	405.7	472.9	525.7
Sales (new)	394.5	447.5	505.7
Change (%)	-2.8	-5.4	-3.8
EPS (old)	5.04	7.02	8.54
EPS (new)	4.89	6.48	8.28
Change (%)	-3.0	-7.7	-3.1

Source: DNB Markets,

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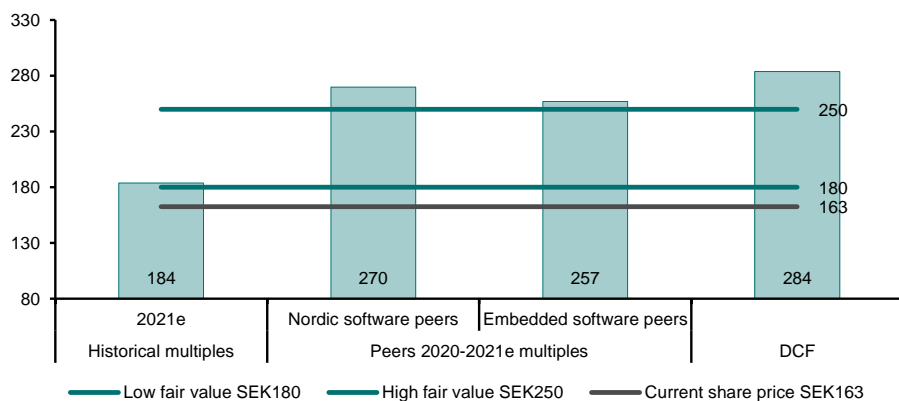
ANALYSTS

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Overview

Valuation (SEK)



Source: DNB Markets

Downside risks to our fair value

- Failure to resurrect the growth story. If investors lose trust in IAR Systems' ability to resume growth, it could trigger a share devaluation, as in 2019.
- Disappointing disclosures regarding key strategic partnerships, in terms of when they will materialise and the fee structure. For instance, the Renesas Synergy agreement has yet to appear in IAR Systems' sales. Thus, it would be negative if the Secure Thingz collaboration were to fall short of management's expectations.
- IAR Systems is highly sensitive to a strengthening of the SEK (particularly against the USD, EUR and JPY).

Source: DNB Markets

DNB Markets estimates

- We believe IAR 4.0 will mark the point when the market starts to view it as the go-to tools partner for global names as they position their embedded systems ahead of the IoT. We would highlight the market opportunity within secure embedded systems and RISC-V.
- We expect the sales growth acceleration in late 2020/early 2021 to cement IAR Systems' central position in the embedded industry's key growth themes.
- We estimate that IAR Systems should generate a 2019–2022 EPS CAGR of 12%, with the true potential expected beyond our forecast period.

Source: DNB Markets

Valuation methodology

- Blending our peer group of Nordic software and embedded software peers with IAR Systems' historical multiples and a DCF suggests a SEK180–250 fair value (methodology unchanged).
- Applying its historical valuation (P/E 28x, EV/EBIT 21x) to our 2021 estimates suggests SEK180–230.
- Our estimates correspond to a 2022e P/E of 20x, an EV/EBIT of 14x, and an EV/sales of 4x, comprising a ~30% discount to its five-year average.

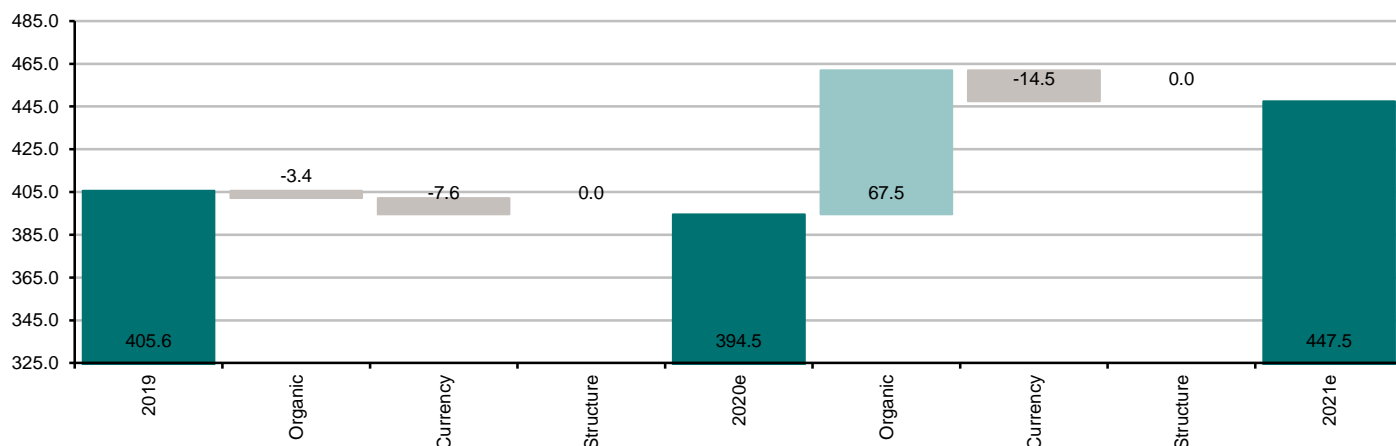
Source: DNB Markets

Upside risks to our fair value

- The company over-delivering on its financial targets (particularly 10–15% organic growth).
- If IAR Systems' new security offering gains faster penetration than we assume by leveraging on its head-start, we believe there is potential for shareholder value creation beyond our fair value.
- Value-enhancing acquisitions to be integrated in its product offering or new strategic partnerships.
- Better cost control (as it has a reputation for tight cost control), implying higher margins.

Source: DNB Markets

Sales bridge 2019–2021e (SEKm)



Source: DNB Markets (forecasts), company (historical data)

ESG overview

Sustainability assessment

	Positive	Negative
Conclusions	<ul style="list-style-type: none"> ■ IAR Systems’ software development tools are market-leading in terms of code quality, analysis, functional safety and security. Its software ensures that the code is in line with industry standards, thereby guaranteeing its reliability when applied. ■ Increased IoT security legislation drives demand for its products, as its OEM customers must comply with new security design requirements. 	<ul style="list-style-type: none"> ■ Data loss or security bugs in the software code could trigger regulatory scrutiny as well as legal costs and reputational damage, hampering its growth prospects. ■ IAR Systems’ competitiveness relies greatly on its ability to continuously innovate. For this, its highly skilled workforce is a key resource. Failure to attract and retain such professionals could lead to delays in innovation and a loss of market share.
Actions being taken by company	<ul style="list-style-type: none"> ■ Embedded programmers clearly need to protect their code from IP theft and illegal copying, as IoT security issues are becoming increasingly prevalent. Following the acquisition of Secure Thingz, IAR Systems’ tools are increasingly linked to sustainability as they help developers take control of security from inception in the IP throughout the lifecycle of a digital product. 	<ul style="list-style-type: none"> ■ IAR Systems’ development tools are the most used in the embedded industry, owing to its leading optimisation technology, comprehensive debugger quality and renowned technical support. This is confirmed by its loyal customer base. It has 46,000 OEM customers and 150,000 technology users, 95% of which are recurring customers, we believe.

Key ESG drivers

Short-term

- Today, fewer than 5% of new IoT devices have embedded security. ABI research forecasts that penetration will increase to 20% by 2022.
- IAR Systems’ security offering (C-Trust and Embedded Trust) ensures that its customers’ intellectual property is protected against IP theft, overproduction, piracy, and that software updates can be managed in a secure fashion. In other words, it creates a secure infrastructure and protects its customers’ digital products from sabotage programmes and data intrusion. Examples of customer use cases have included:
 - A leading vending machine provider, whose IP was stolen (stolen credit card and transaction details); a global white goods company, whose stolen IP led to twice as many products being manufactured; a leading door sensor provider, whose IP was stolen internally, which led to direct revenue loss, etc.
- To stay ahead of the competition, IAR Systems relies heavily on its employees in the development and innovation of new technologies.
- Following the integration of Secure Thingz, IAR Systems’ addressable market has expanded from application development into manufacturing and update management (the entire lifecycle of embedded systems). To keep pace with competition in a larger market, it needs to retain highly skilled software engineers, which could come at a higher cost than its traditional business.
- As an increasingly larger part of IAR Systems should revolve around Cambridge-based Secure Thingz, this could create some corporate cultural challenges versus the Uppsala-based legacy business.

Long-term

- Regulators will also play an active role in the long-term uptake of secure development tools. This is having an increasing impact on programmers’ designs, as applications need to remain secure across the entire lifecycle to comply with new legislation. We note legislation initiatives in Europe (UK government, ETSI, ENISA), the US (California IoT Security law, NIST evolving cyber security act), and government initiatives across Singapore, Japan, South Korea and China, etc.
- Considering its offering of software development tools to over 46,000 clients, as well as the sensitive nature of the data it handles, IAR Systems is exposed to possible hacking attempts and misappropriation of technological data.

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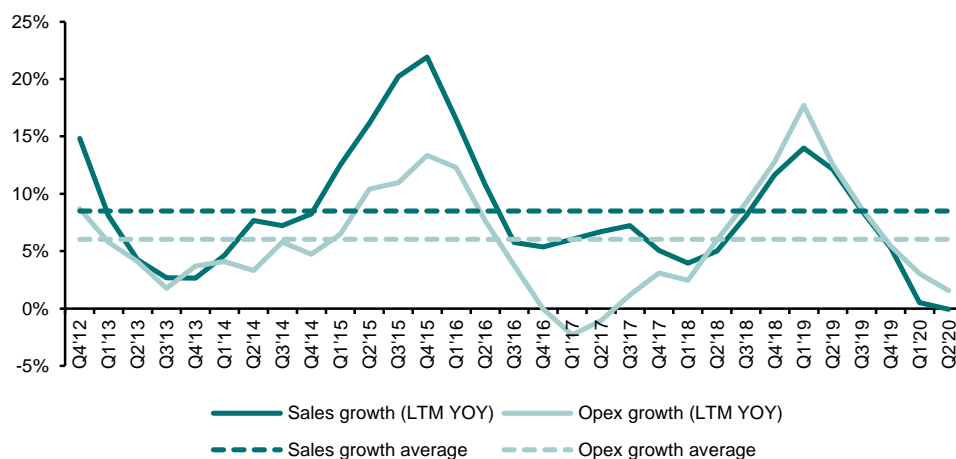
Q2 results

Figure 1: Q2 results versus expectations

Key highlights (SEKm, except per share data)	Q2 2020		Deviation (%)		Deviation, DNB		Q2 2019	DNBe
	Actual	DNB	DNB	DNB	Actual	2020e		
Sales	100.1	86.8	15%		13	99.0	394.5	
Gross profit	96.7	84.6	14%		12	96.5	380.8	
Margin	96.6%	97.4%				97.5%	96.5%	
EBIT adjusted	25.0	17.1	46%		8	23.8	89.8	
Margin	25.0%	19.7%	5.3pp			24.0%	22.8%	
One-offs	0.0	0.0				0.0	0.0	
EBIT	25.0	17.1	46%		8	23.8	89.8	
Margin	25.0%	19.7%	5.3pp			24.0%	22.8%	
EPS	1.29	0.88	46%		0	1.20	4.89	
Growth YOY								
Sales growth	1.1%	-12.3%	13.4pp			3.6%	-2.7%	
-of w hich organic	-0.8%	-16.3%	15.4pp			-2.3%	-0.9%	
-of w hich FX	1.9%	4.0%	-2pp			5.9%	-1.9%	
Divisions (SEKm)	Q2 2020				Q2 2019		2020e	
	Actual	DNB			Actual	DNB		
Sales								
Legacy IAR Systems	97.6	86.2	13%		96.8	381.9		
Royalty-based revenue	0.0	0.0	n.a.		1.5	0.0		
Secure Thingz	2.5	0.7	279%		0.7	12.6		
Group	100.1	86.8	15%		99.0	394.5		
EBIT adjusted								
Legacy IAR Systems + Secure Thin	25.0	17.1	46%		22.3	89.8		
Royalty-based revenue	0.0	0.0	n.a.		1.5	0.0		
Group	25.0	17.1	46%		23.8	89.8		
FX impact								
Sales	1.9%	4.0%	-2pp		5.9%	-1.9%		
EBIT	5.5%	13.7%	-8.3pp		15.2%	-5.3%		

Source: Company (historical figures), DNB Markets (estimates)

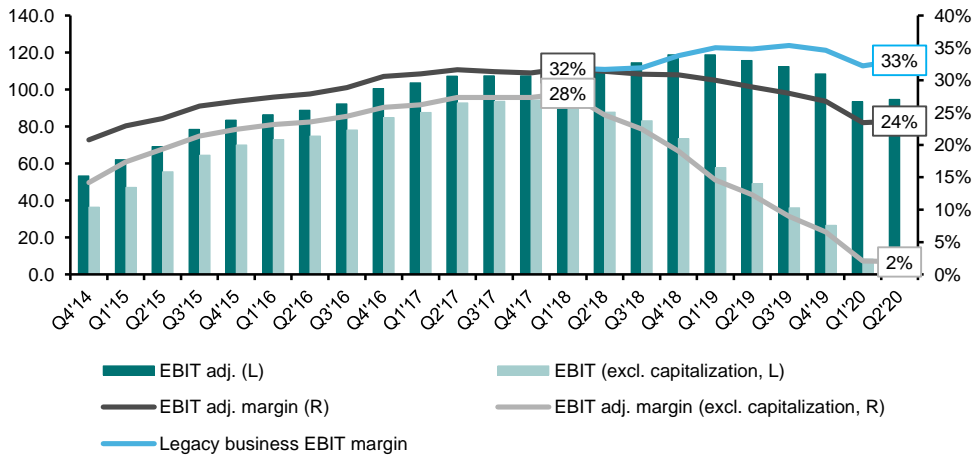
Figure 2: Sales growth surpassed by opex growth in recent years (LTM)



Source: DNB Markets (forecasts), company (historical data)

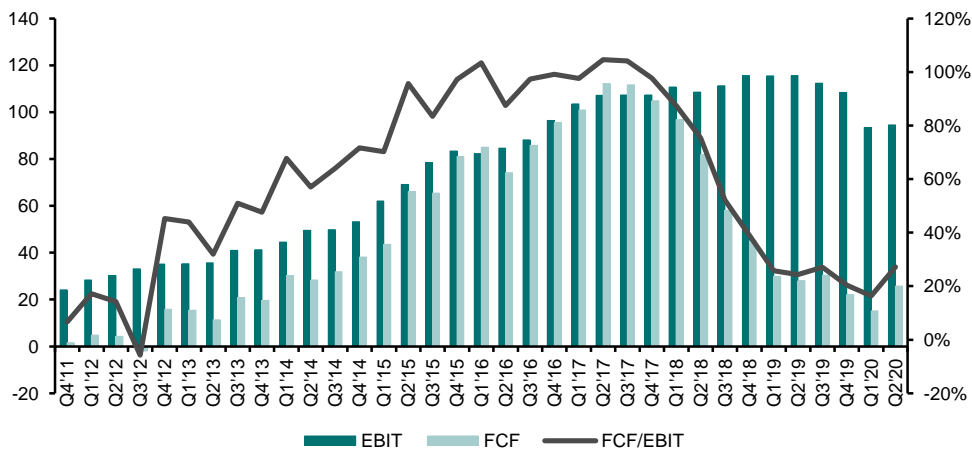
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Figure 3: EBIT and margin trajectory (excl. capitalisation of development costs) (LTM, Q4 2014-Q2 2020)



Source: DNB Markets (estimates), company (historical data)

Figure 4: Unimpressed by the cash conversion since the Secure Thingz acquisition



Source: DNB Markets (forecasts), company (historical data)

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Estimate revisions

Figure 5: Estimate changes

(SEKm, except per share data)	Old			New			Change		
	2020e	2021e	2022e	2020e	2021e	2022e	2020e	2021e	2022e
Sales									
Legacy IAR Systems	394.5	443.8	469.5	381.9	418.1	446.2	-3%	-6%	-5%
Royalty-based revenue	0.0	0.0	0.0	0.0	0.0	0.0			
Secure Thingz	11.2	29.1	56.2	12.6	29.3	59.5	12%	1%	6%
Group Total	405.7	472.9	525.7	394.5	447.5	505.7	-3%	-5%	-4%
EBIT adjusted									
Legacy IAR Systems + Secure Thingz	92.0	128.9	156.8	89.8	119.4	152.3	-2%	-7%	-3%
Royalty-based revenue	0.0	0.0	0.0	0.0	0.0	0.0			
Group Total	92.0	128.9	156.8	89.8	119.4	152.3	-2%	-7%	-3%
EBIT adjusted margin									
Legacy IAR Systems + Secure Thingz	22.7%	27.3%	29.8%	22.8%	26.7%	30.1%	8bp	-57bp	29bp
Royalty-based revenue	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	0bp	0bp	0bp
Group Total	22.7%	27.3%	29.8%	22.8%	26.7%	30.1%	8bp	-57bp	29bp
Organic growth components									
Legacy IAR Systems	-3.8%	11.9%	5.5%	-2.2%	12.5%	6.0%	158bp	60bp	44bp
Royalty-based revenue	-1.5%	0.0%	0.0%	-1.5%	0.0%	0.0%	0bp	0bp	0bp
Secure Thingz	2.3%	4.3%	5.6%	2.8%	4.6%	7.1%	50bp	28bp	142bp
Group Total	-2.9%	16.2%	11.2%	-0.9%	17.1%	13.0%	208bp	88bp	186bp
Group									
Sales	405.7	472.9	525.7	394.5	447.5	505.7	-3%	-5%	-4%
Sales growth th	0.0%	16.6%	11.2%	-2.7%	13.4%	13.0%	-276bp	-314bp	186bp
Organic	-2.9%	16.2%	11.2%	-0.9%	17.1%	13.0%	208bp	88bp	186bp
Structure	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0bp	0bp	0bp
Currency	3.0%	0.3%	0.0%	-1.9%	-3.7%	0.0%	-484bp	-402bp	0bp
Gross profit	392.4	459.9	511.2	380.8	434.3	490.9	-3%	-6%	-4%
Margin	96.7%	97.2%	97.2%	96.5%	97.1%	97.1%	-19bp	-18bp	-18bp
EBIT adjusted	92.0	128.9	156.8	89.8	119.4	152.3	-2%	-7%	-3%
Margin	22.7%	27.3%	29.8%	22.8%	26.7%	30.1%	8bp	-57bp	29bp
Adjustments	0.0	0.0	0.0	0.0	0.0	0.0			
EBIT	92.0	128.9	156.8	89.8	119.4	152.3	-2%	-7%	-3%
Margin	22.7%	27.3%	29.8%	22.8%	26.7%	30.1%	8bp	-57bp	29bp
Net financial items	-1.5	-2.1	-2.4	-2.1	-2.4	-2.9			
Pretax profit	90.5	126.7	154.3	87.7	117.0	149.4	-3%	-8%	-3%
Tax	-21.9	-31.1	-37.9	-21.0	-28.7	-36.6	-4%	-8%	-3%
Tax rate	24.2%	24.5%	24.5%	24.0%	24.5%	24.5%	-19bp	-4bp	-4bp
Net profit	68.7	95.6	116.5	66.6	88.3	112.8	-3%	-8%	-3%
EPS adjusted	5.04	7.02	8.54	4.89	6.48	8.28	-3%	-8%	-3%
EPS	5.03	7.02	8.54	4.88	6.48	8.28	-3%	-8%	-3%
DPS	1.50	2.52	3.51	1.50	2.44	3.24	0%	-3%	-8%

Source: DNB Markets

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Figure 6: Quarterly estimates by division

(SEKm, except per share data)	Q1'19	Q2'19	Q3'19	Q4'19	Q1'20	Q2'20	Q3'20e	Q4'20e	Q1'21e	Q2'21e	Q3'21e	Q4'21e
Sales												
Legacy IAR Systems	98.0	96.8	98.1	105.1	91.4	97.6	87.5	105.6	96.8	103.1	98.6	119.8
Royalty-based revenue	1.4	1.5	1.6	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Secure Thingz	0.4	0.7	0.3	0.3	0.9	2.5	3.0	6.0	6.5	7.0	7.6	8.2
Group Total	99.8	99.0	100.0	106.8	92.3	100.1	90.5	111.6	103.3	110.1	106.2	128.0
EBIT												
Legacy IAR Systems + Secure Thingz	28.0	22.3	26.5	25.7	14.4	25.0	20.0	30.4	21.1	31.6	29.8	37.0
Royalty-based revenue	1.4	1.5	1.6	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Group Total	29.4	23.8	28.1	27.1	14.4	25.0	20.0	30.4	21.1	31.6	29.8	37.0
EBIT adjusted margin												
Legacy IAR Systems + Secure Thingz	28.6%	23.0%	27.0%	24.5%	15.8%	25.6%	22.8%	28.8%	21.8%	30.6%	30.2%	30.9%
Royalty-based revenue	100.0%	100.0%	100.0%	100.0%								
Group Total	29.5%	24.0%	28.1%	25.4%	15.6%	25.0%	22.1%	27.3%	20.5%	28.7%	28.0%	28.9%
Organic growth												
Legacy IAR Systems	3.4%	-2.3%	-2.7%	-1.2%	-11.0%	-0.8%	-4.9%	6.9%	12.4%	12.2%	12.9%	12.6%
Royalty-based revenue	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-1.6%	-1.3%	0.0%	0.0%	0.0%	0.0%
Secure Thingz	0.0%	0.0%	0.0%	0.0%	-0.1%	0.0%	2.9%	5.7%	6.5%	5.0%	5.4%	2.1%
Group Total	3.5%	-2.3%	-2.8%	-1.3%	-11.1%	-0.8%	-3.6%	11.3%	18.9%	17.1%	18.2%	14.7%
Group												
Sales	99.8	99.0	100.0	106.8	92.3	100.1	90.5	111.6	103.3	110.1	106.2	128.0
Sales growth	12.3%	3.6%	2.1%	3.9%	-7.5%	1.1%	-9.5%	4.5%	11.9%	10.0%	17.3%	14.7%
Organic	3.5%	-2.3%	-2.8%	-1.3%	-11.1%	-0.8%	-3.6%	11.3%	18.9%	17.1%	18.2%	14.7%
Structure	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Currency	8.8%	5.9%	4.9%	5.2%	3.6%	1.9%	-5.9%	-6.8%	-7.0%	-7.2%	-0.9%	0.0%
Gross profit	97.7	96.5	97.5	103.1	88.3	96.7	88.1	107.6	100.3	106.6	103.7	123.7
Margin	97.9%	97.5%	97.5%	96.5%	95.7%	96.6%	97.4%	96.4%	97.2%	96.9%	97.7%	96.7%
EBIT adjusted	29.4	23.8	28.1	27.1	14.4	25.0	20.0	30.4	21.1	31.6	29.8	37.0
Margin	29.5%	24.0%	28.1%	25.4%	15.6%	25.0%	22.1%	27.3%	20.5%	28.7%	28.0%	28.9%
Adjustments	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EBIT	29.4	23.8	28.1	27.1	14.4	25.0	20.0	30.4	21.1	31.6	29.8	37.0
Margin	29.5%	24.0%	28.1%	25.4%	15.6%	25.0%	22.1%	27.3%	20.5%	28.7%	28.0%	28.9%
Net financial items	-0.2	-2.0	0.7	0.1	-0.1	-1.9	-0.1	0.0	-0.4	-2.2	0.0	0.1
Pretax profit	29.2	21.8	28.8	27.2	14.3	23.1	19.9	30.4	20.8	29.4	29.8	37.1
Tax	-6.3	-5.1	-7.2	-7.2	-3.2	-5.5	-4.9	-7.4	-5.1	-7.2	-7.3	-9.1
Tax rate	21.6%	23.4%	25.0%	26.5%	22.4%	23.8%	24.5%	24.5%	24.5%	24.5%	24.5%	24.5%
Net profit	22.9	16.7	21.6	20.0	11.1	17.6	15.0	22.9	15.7	22.2	22.5	28.0
EPS adjusted	1.64	1.20	1.58	1.46	0.81	1.29	1.10	1.68	1.15	1.63	1.65	2.06
EPS	1.68	1.23	1.58	1.47	0.81	1.29	1.10	1.68	1.15	1.63	1.65	2.06
DPS	0.00	5.00	0.00	0.00	0.00	0.00	0.00	1.50	0.00	2.44	0.00	0.00

Source: DNB Markets (forecasts), company (historical data)

Figure 7: IAR Systems valuation versus listed peers

	Mkt. cap. (SEKbn)	P/E (x)			EV/EBIT (x)			EV/Sales (x)			Div. yield (%)		ROE (%)		EBIT margin		CAGR 2019–2021e (%)		
		2019e	2020e	2021e	2019e	2020e	2021e	2019e	2020e	2021e	2019e	2020e	2019e	2020e	2019e	2020e	Sales	EBIT	EPS
IAR Systems (DNBe)	2.2	33.3	25.1	19.7	25.2	18.8	14.6	5.7	5.0	4.4	0.9	1.5	11	13	22.8	26.7	5	5	4
<i>Premium/discount</i>		-42%	-49%	-51%	-45%	-52%	-57%	-55%	-54%	-54%									
IAR Systems (Cons.)	2.2	35.5	25.0	21.3	27.3	19.1	16.1	5.6	4.8	4.4	1.4	2.0	11	14	20.7	25.2	7	4	5
<i>Premium/discount</i>		-38%	-49%	-47%	-41%	-52%	-52%	-56%	-56%	-53%									
Nordic software peers																			
QT Group	8.7		64.4	47.2		51.6	36.9	11.3	9.2	7.5	0.0	0.3	34	39	13.6	17.8	27		
Admicom	3.7	50.3	37.1	28.5	39.0	28.4		15.8	12.5	10.0	1.4	1.8	32	36	40.0	42.8	33	36	36
Fortnox	16.6	89.9	72.0	55.7	65.0	51.1	41.8	23.7	19.0	15.3	0.3	0.4	54	45	36.1	36.5	28	37	31
HMS Networks	9.7	52.3	43.2	35.9	39.4	31.7	26.1	7.1	6.1	5.5	0.7	1.0	17	17	17.9	18.9	3	7	8
INVISIO Communications	7.4	60.4	41.9	32.0	45.3	31.2	23.3	11.7	9.2	7.5	0.8	1.1	30	34	25.9	29.2	24	43	33
Lime Technologies	4.4	75.5	60.4	52.5	62.1	50.3	43.6	13.1	11.2	9.8	0.6	0.7	66	57	21.2	22.1	17	31	26
SimCorp	42.4	48.4	36.8	32.8	37.5	28.7	25.4	9.1	8.1	7.5	1.0	1.1	34	38	24.1	28.0	6	5	5
Vitec Software	9.4	47.2	44.0	39.0	50.2	45.4	39.5	7.6	6.8	6.1	0.5	0.5	17	16	15.3	15.1	11	17	14
Embedded software peers																			
Cadence Design Systems	262.6	42.8	39.6	35.6	34.4	32.5	28.0	11.5	10.7	10.0		0.5	32	28	33.1	32.1	9	10	12
ANSYS	238.6	52.7	46.6	42.0	46.8	38.6	32.4	17.0	15.4	13.8	0.0	0.0	13	13	36.6	39.8	9	3	5
Xilinx	217.4	30.6	34.3	28.7	30.5	37.5	32.4	7.6	7.9	7.1	1.4	1.5	30	28	26.0	21.2	0	-18	-11
Altium	30.3	79.8	64.6	54.8	57.8	47.0	40.2	18.1	16.3	14.0	1.1	1.3	23	29	31.4	34.4	10	11	1
Average	70.9	57.3	48.7	40.4	46.2	39.5	33.6	12.8	11.0	9.5	0.7	0.8	32	32	26.8	28.2	15	17	14
Median	13.1	52.3	43.6	37.4	45.3	38.1	32.4	11.6	10.0	8.7	0.7	0.8	31	31	26.0	28.6	11	11	12

Source: Bloomberg (underlying data), DNB Markets (further calculations)

Summary of positives

World-leading provider of software development tools and services

Sweden-based IAR Systems is a world-leading provider of software tools and services for embedded systems (a chip containing embedded software) that enable the development of digital products for 46,000+ customers with 150,000+ users in end-markets, underpinned by growing demand for digital technology. We believe IAR Systems has a resilient business model selling flexible right-to-use licences to access its wholly owned software tool-chain (the IAR Embedded Workbench), which enables close customer relationships, high customer retention and consistent revenue streams, complemented by a royalty-based agreement with world-leading processor vendor Renesas Electronics. The March 2018 acquisition of Secure Thingz (the leading provider of advanced security solutions that help customers to take control of digital products from inception) has made IAR Systems the frontrunner ahead of the paradigm shift associated with security solutions for embedded systems in the Internet of Things (IoT).

Its software tools and services enable the development of digital products...

...in end-markets underpinned by growing demand for digital technology

Embedded resilience in a sticky business

We consider IAR Systems' key competitive advantage to be its proprietary technology platform, the IAR Embedded Workbench, which holds a ~40% global market share, as: 1) it is a unique line-up of a complete tool-chain for product developers; 2) being independent, IAR Systems supports a wide range of design architecture, meaning customers can choose the programming environment and tools according to their own needs, regardless of processor or project, which avoids locking customers in to one technical platform; 3) superior quality as its commercial customers cannot compromise on tools' code performance, reliability, user-friendliness, or time-to-market using inferior technologies such as open-source alternatives; 4) it is now a leading participant in embedded systems security, and should be able to leverage its head-start and unique technology to maximise the market potential; and 5) a scaled-up management team with the ability to execute the growth potential in the business, in our view.

IAR Systems owns the market for software development tools with c50% global market share

Key competitive strengths:

- 1) unique and complete tool-chain
- 2) independence
- 3) high-quality products
- 4) frontrunner in security solutions
- 5) management's ability to achieve its long-term potential

IAR 4.0

IAR Systems has gone through various phases since 2010, having streamlined the business towards proprietary software, creating a more specialised company and shifted its project-based business model to scalable licence sales, which has substantially improved margins. In our view, it is now heading into its fourth phase: the growth story. We believe that IAR 4.0 (our interpretation of IAR Systems' next phase) marks the shift from being a supplier of a compiler to becoming the go-to software tool partner for global names such as Amazon and Renesas Electronics, as they position their embedded systems ahead of the Internet of Things (IoT).

Setting the scene for the growth story

Growing addressable market with the spread of digital technology

The spread of digital technology is driving the market for embedded systems. Thus, the market has numerous underlying drivers that all indicate a continuation of the solid industry growth of the past decade. Global Market Insights estimates a 6% market CAGR until 2025, and we believe the factors that could affect growth for IAR Systems are likely to be: 1) continued increase in the number (and complexity) of embedded systems driven by IoT; 2) demand for reliable and advanced software tools that offer faster time-to-market and a complete development platform; 3) the automotive opportunity as cars become mobile computing platforms; 4) RISC-V adoption; 5) market consolidation and participants becoming too dominant; and 6) untapped potential in security solutions for embedded systems.

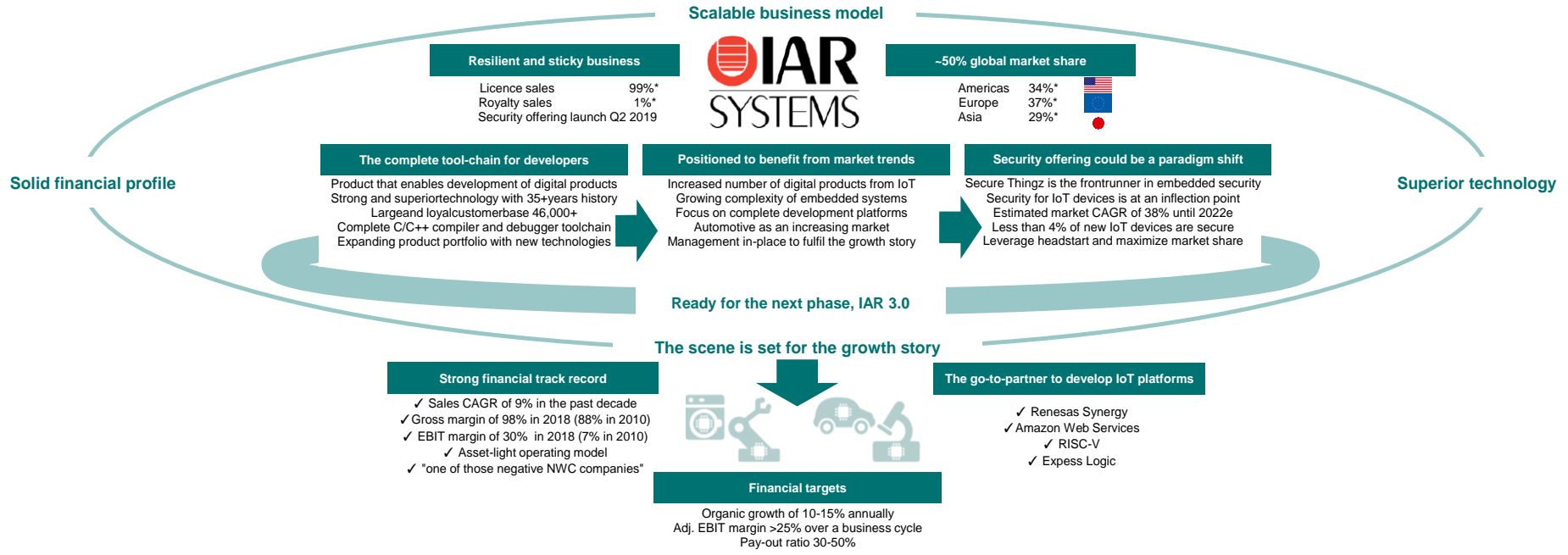
Numerous market drivers indicate a continuation of the solid industry growth

Security for embedded systems could mark a paradigm shift for IAR Systems

Having acquired Secure Thingz in Q2 2018, we believe IAR Systems is now the frontrunner in offering secure embedded systems. Theft of IP (code), cloning, counterfeiting etc. has made security issues the number one barrier for IoT adoption. The security market for embedded systems is in its inception phase but we expect it to grow rapidly through 2022 driven by 1) securing IP is a business imperative and 2) increasingly stringent security legislation. Thus, the share of secure new embedded products is set to grow from 5% today to almost 20% by 2022e, according to ABI Research. In Q2 2019, IAR Systems launched its security offering (C-Trust and Embedded Trust), which ensures that its customers' intellectual property is protected against IP theft, overproduction, piracy, and that software updates can be managed in a secure fashion.

Untapped potential in security offering with an addressable market opportunity of USD3bn highlights that if IAR Systems is able to grab just a small market share, it could have a swing factor on its valuation

Figure 8: IAR Systems at a glance



Source: Company (underlying data), DNB Markets (compilation)

We forecast 2019–2022 sales and EBIT CAGRs of 8% and 12%, respectively

We forecast a 2019–2022 sales CAGR and untapped potential in security solutions for embedded systems of 8% and an EBIT CAGR of 12%, based on a strong market outlook underpinned by: 1) an increase in the number (and complexity) of embedded systems; 2) growing demand for reliable and advanced software tools that offer faster time-to-market and complete development platforms; 3) the automotive opportunity, as cars become mobile computing platforms; and 4) rapid RISC-V adoption.

This should be driven by a 5% organic sales CAGR for its legacy licensing business (98% of 2019 sales), as the aforementioned market drivers should translate into more processors and lines of code, driving demand for software development tools and possibly programmers (user keys) for IAR Systems, as well as a full user-friendly total solution enabling customers to re-use large amounts of code. The large growth opportunities for its legacy business are:

- 1 Growing RISC-V adoption, as its tools launched in May 2019 have been well received by customers (especially in China, which accounts for 1% of group sales), setting the stage for accelerating organic growth.
- 2 Strategic customer sales now represent c10–15% of sales, highlighting that larger OEMs (in some cases 100+ developers) are increasingly standardising on IAR Systems’ tools.
- 3 In addition, increased penetration from existing and new technologies in the IAR Embedded Workbench should drive add-on sales.

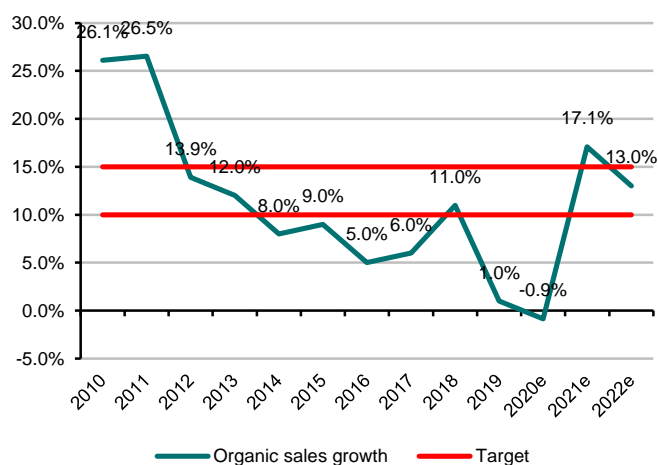
IAR Systems’ security offering lends the greatest growth potential, in our view, as IAR Systems has a solid track record of offering new products to existing customers. In a simplified scenario, we believe its existing customer base could represent a >SEK10bn revenue pool for its security offering. This should provide a long runway for future growth, but in the short term we expect: 1) security legislation to play an active role in the update of secure development tools; and 2) the company to focus on larger customer accounts. Furthermore, discussions with its customers and partners at Embedded World 2019 cemented our view of IAR Systems’ value proposition.

We forecast a 2019–2022 EBIT CAGR of 12%, implying a margin gain from 27% in 2019 to 30% in 2022e, driven by: 1) solid organic volume growth; and 2) ample operational leverage (hurt in 2018–2019 by the integration of Secure Thingz) in 2020–2022e, as we believe IAR Systems should continue to benefit from economies of scale due to its large fixed cost base.

Market drivers should create more processors and lines of code, driving demand for software development tools, and a user-friendly total solution enabling customers to re-use code

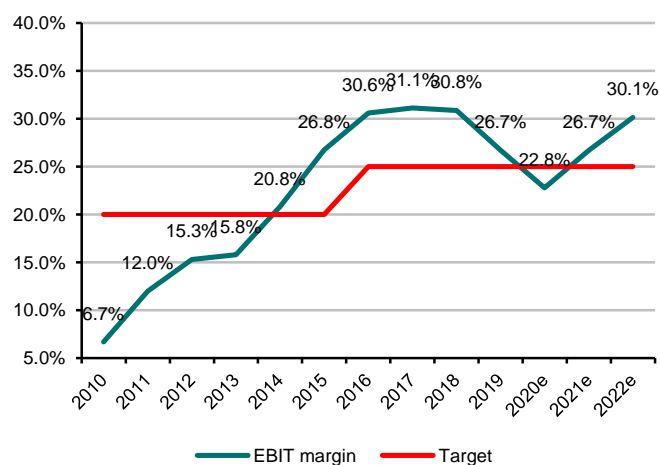
We expect Secure Thingz to contribute to group sales with 5% organic growth CAGR in 2019–2022

Figure 9: Organic sales growth (2010–2022e)



Source: DNB Markets (forecasts), company (historical data)

Figure 10: Adj. EBIT margin (2010–2022e)



Source: DNB Markets (forecasts), company (historical data)

Financial targets

IAR Systems has three financial targets: 1) average organic growth of 10–15% annually; 2) an adj. EBIT margin in excess of 25% over a business cycle; and 3) a dividend payout of 30–50% of annual net income.

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Figure 11: IAR Systems' financial targets – reported and DNB Markets' estimates

	Reported fiscal years					IAR target	DNB Markets' estimates		
	2015	2016	2017	2018	2019		2020e	2021e	2022e
Organic growth	9.0%	5.0%	6.0%	11.0%	1.0%	10-15%	-0.9%	17.1%	13.0%
EBIT margin	26.8%	30.6%	31.1%	30.8%	26.7%	>25%	22.8%	26.7%	30.1%
Payout ratio	99.7%	113.3%	79.0%	74.9%	83.9%	30-50%	31%	38%	39%

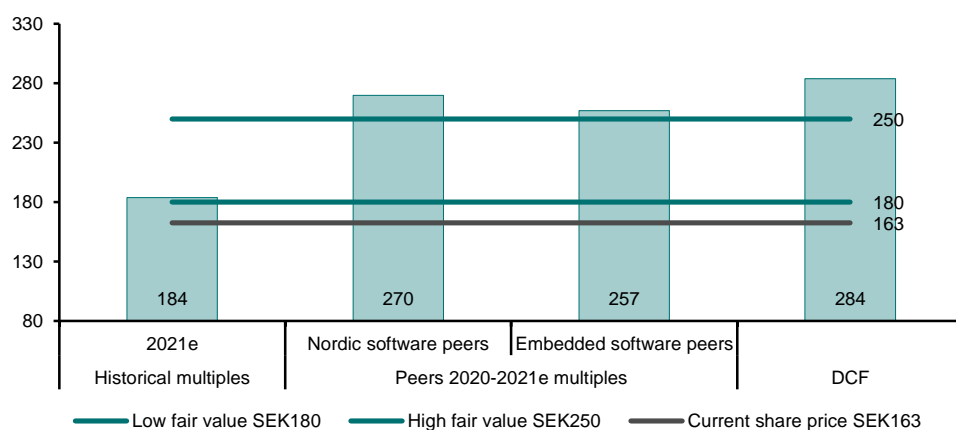
Source: DNB Markets (forecasts), company (historical data and targets)

We calculate a fair value of SEK180–250/share

Based on IAR Systems' historical valuation multiples (P/E of 29x, EV/EBIT of 21x), our group of Nordic software peers, embedded software peers, and our DCF model, we calculate a fair value of SEK180–250/share. On the current share price, our estimates suggest a 2022 P/E of 20x, EV/EBIT of 14x, and EV/sales of 4x, while our fair value suggests 10–50% potential upside.

Fair value of SEK180–250/share suggests potential of 10–50%

Figure 12: Valuation summary (SEK/share)



Source: DNB Markets

Summary of negatives

The key risks that could affect our fair value are: 1) IAR Systems' inability to resurrect the growth story, e.g. if it failed to capture the underlying market growth, or if there was prolonged market consolidation (causing market uncertainty) or delays in key strategic initiatives; 2) market entry by large and well-resourced participants that, until now, have overlooked the potential in software tools for embedded systems; and 3) FX headwinds, as the company is fairly sensitive to fluctuations in the SEK as it does not hedge its currency flows (with >99% of sales from markets outside Sweden but 50% of its cost base in SEK).

- **Failure to resurrect the growth story.** Having reported average local-currency growth of 20% in 2010–2013, 9% in 2014–2015 and 6% in 2016–2019, we believe the key risk to the valuation is a failure to resurrect the organic growth story. While we have identified numerous market drivers that should fuel organic growth in our forecast period, an inability to capture these trends, delays in when the factors materialise, or disappointing disclosures regarding the new strategic alliances in royalty fees, licensing structures, etc. could raise questions about the operations and thus the valuation.
- **FX headwinds.** Although >99% of sales are from markets outside Sweden, we estimate ~50% of the fixed cost base is denominated in SEK; hence the company is fairly sensitive to fluctuations in this currency. If the SEK were to strengthen by 10% against its most important currencies (USD, EUR, JPY) as well as the GBP and KRW in 2019, we estimate a ~10% FX headwind on sales and a ~30% headwind on 2020 EBIT.
- **Intensified competitive landscape.** While the company holds leading positions across most processor types, it still faces a highly competitive environment, particularly from the independent supplier Green Hills Software and Arm's development tool, Kiel. If competitiveness were to intensify or market growth rates were to abate, there could be pressure on the pricing of software licences (from those not giving it away free) in efforts to recapture growth or gain market share. While we believe the commercial viability of open source names is a limited risk for IAR Systems' offering today, any success for these alternatives could result in reduced licensing revenues for IAR Systems.
- **Continued market consolidation.** The ongoing consolidation trend among processor vendors could last longer than IAR Systems expects. If this continues to create market uncertainty and disrupt IAR Systems' partner network, it could hamper its growth prospects. Moreover, if the acquisitions of embedded software companies continue, it could cap IAR Systems' ability to integrate new technologies into its product offering. If it fails to acquire new technologies or create strategic alliances to integrate into IAR Systems' offering, this could impede its ability to address new market trends that should contribute to growth.
- **Large company entering the market.** While we believe barriers to entry are considerable, we also believe the attractiveness of this market has been somewhat overlooked by industry giants as they have often acquired development-tool companies and given away the products 'free' to reduce costs. As many competitors in the semiconductor industry (particularly processor vendors) but especially global giants such as Google and Amazon are well resourced, it could pose a threat if they were to consider increasing their presence in software development tools.
- **Limited supply of qualified personnel.** In an industry characterised by rapid technological development, it is vital for IAR Systems to continually improve its product offering through innovation. A need for its technology and products to be market-leading means it has to retain well-qualified employees, particularly in the technological aspects of product development. Failure to respond quickly to technological developments through qualified personnel could hurt its operations.
- **Worsening economic conditions.** A deteriorating global economy would probably cause a downturn in the cyclical semiconductor industry and customers' end-markets, which could affect the number of new microprocessors, and consequently demand for software development tools that programme the chips.

Until now large well-resourced competitors have overlooked the potential in software tools for embedded systems

IAR Systems is sensitive to fluctuations in the SEK

Growth prospects could be hampered by further consolidation

Retaining talented employees is key

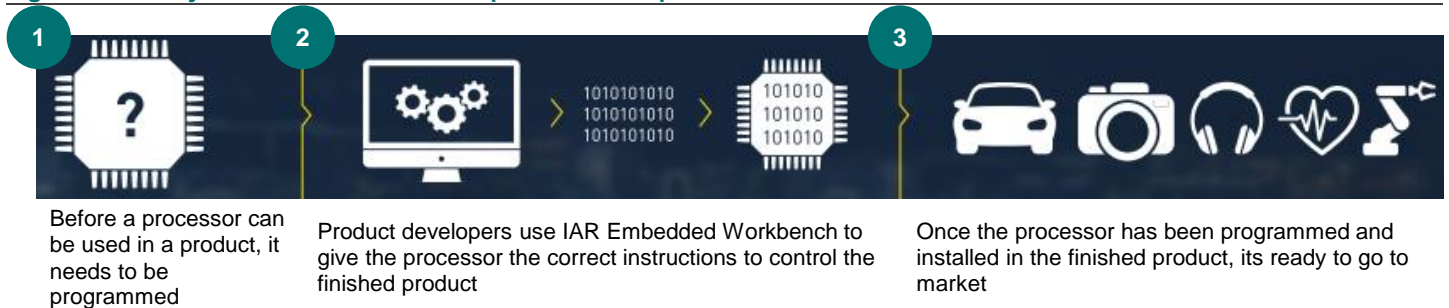
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Business overview

Dating back to 1983, IAR Systems is an independent provider of software for the programming of microprocessors in embedded systems (the control function in digital products). Its leading software – the IAR Embedded Workbench – facilitates, quality-assures, and improves the time-to-market of programming instructions in processors. The customer base of 46,000+ OEM customers and 150,000+ technology users is found mainly in end-markets underpinned by growing demand for digital technology and embedded systems, such as industrial automation, medical technology, telecommunications, consumer electronics, and the automotive industry.

World-leading provider of software for programming processors in embedded systems, which enable the development of digital products

Figure 13: IAR Systems' role in customers' product development



Source: Company

Headquartered in Uppsala (Sweden), the company holds a leading global market share of ~40% with 95%+ of sales stemming from markets outside the Nordics and a headcount of 219. IAR Systems' business model is primarily licence-based, where customers pay for a flexible right-to-use licence to access the IAR Embedded Workbench®, giving it attractive and steady revenue streams (~35% recurring revenues). In addition to this, IAR Systems has undergone two of the most comprehensive product launches in its history in 2019. With the launch of its security offering (C-Trust and Embedded Trust) as well as for RISC-V tools introducing a subscription-based model, we believe the building blocks are in place take the case to the next level:

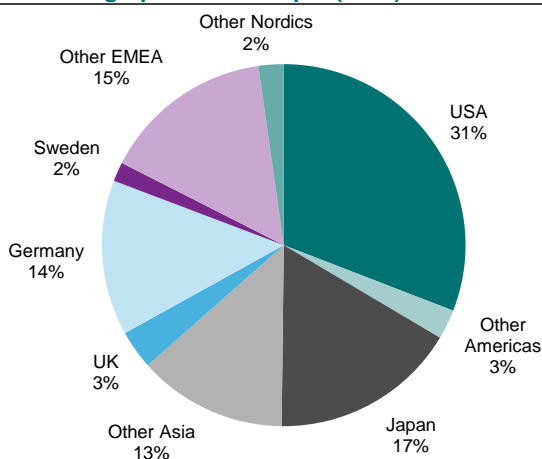
50% global market share with 98% licence-based revenues, which are flexible for customers and leverage the number of programmers using its licence...

- **IAR Embedded Workbench (99% of 2019 sales)** based on the number of licence users (perpetual software keys) of the IAR Embedded Workbench sold when a developer programmes a product. The traditional licence costs cSEK30,000 (upfront) while the customer can add support and updates for an annual cost of 20% of the licence price.
- **Secure Thingz (0%).** C-Trust at ~SEK30,000/seat as a perpetual licence targeting IAR's 150,000 users, Embedded Trust at ~SEK150,000/seat as an annual subscription licence targeting the security experts at IAR Systems' 46,000 OEM customers.

...In 2019 IAR Systems also introduced a subscription model via its RISC-V tools and Embedded Trust ...

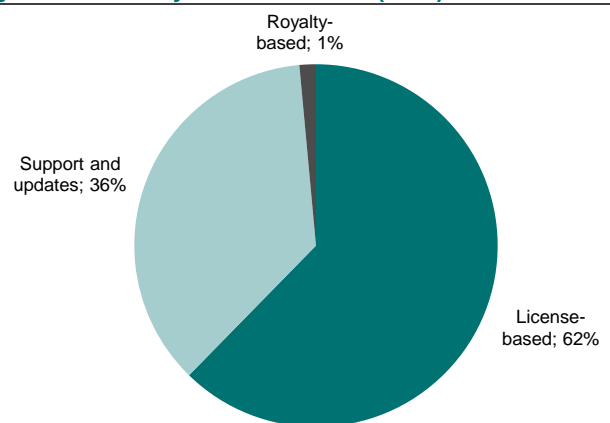
... complemented by royalty-based revenue that leverages the number of chips used in customers' production, which falls straight through to EBIT

Figure 14: Geographical sales split (2018)



Source: Company

Figure 15: Sales by business model (2019)



Source: Company

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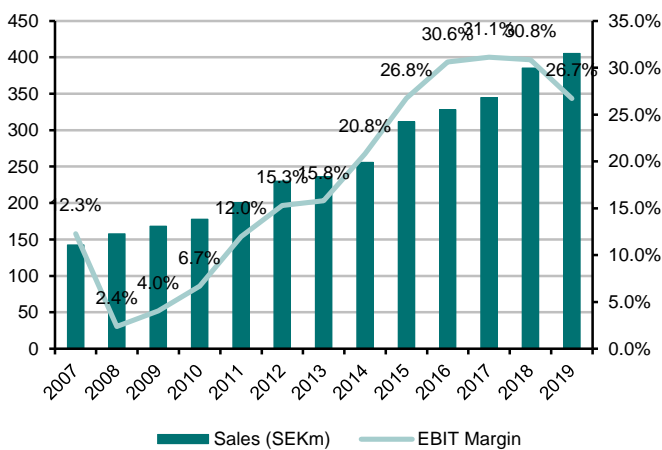
IAR Systems was acquired by IT conglomerate Nocom in 2005. However, by 2010 Nocom (known as Intoi by then) wanted to focus on proprietary software and create a more specialised company, so it kept only IAR Systems and took on that name.

With 2019 net sales of SEK406m, IAR Systems is 3x larger than the company acquired in 2005. While generating a sales CAGR of 9% over the past 10 years, it was able to significantly boost underlying profitability from an adj. EBIT margin of 12.3% in 2007 to 26.7% in 2019, which we attribute to: 1) the scalability of its high-gross-margin standardised software; 2) more focus on proprietary products; and 3) increased cost-efficiency (given the large fixed cost base, where personnel costs represent 46% of sales).

From an IT conglomerate to a streamlined proprietary software provider...

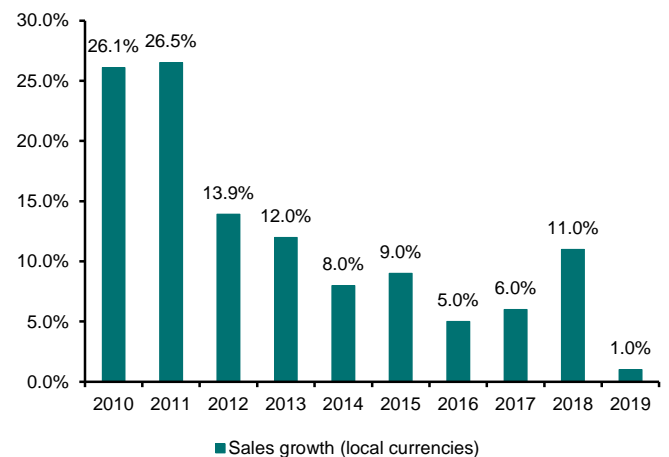
...with profitable growth, sales CAGR of 9% and adj. EBIT CAGR of 32% in the past 10 years

Figure 16: IAR Systems – sales (SEKm) and adj. EBIT margin



Source: Company

Figure 17: IAR Systems – sales growth local currencies



Source: Company

IAR Systems' key competitive advantage in our view is its flagship product, the IAR Embedded Workbench, which is a complete tool-chain for customers. Being independent, the software supports 14,000+ processors for embedded systems from the major process vendors with 8-, 16-, and 32-bit architecture, meaning customers can choose the programming environment and tools according to their own needs regardless of processor or project, which avoids locking customers into one technical platform. Moreover, it can re-use 70–80% of previously developed code instead of rewriting it (saving time and resources).

Key competitive advantage: cutting-edge wholly owned technology that maximises customer benefits offering a complete solution...

Over the past few years, IAR Systems has expanded its product portfolio and now offers several adjacent products integrated in the IAR Embedded Workbench to optimise the code programming, for instance C-STAT and C-RUN (static and dynamic analysis that quality-assures and strengthens the reliability of the programming), Embedded Trust (security development environment for IoT solutions) and C-Trust (delivering secure, encrypted code) through its acquisition of Secure Thingz, as well as support for RISC-V, positioning IAR Systems in two of the embedded industry's hottest themes. In addition to driving add-on sales, this has – combined with a comprehensive support organisation – translated into impressive customer retention (95% recurring customers) and strengthened IAR Systems' competitiveness.

...which, combined with complementary integrated products and comprehensive support, means a loyal customer base (95% recurring customers)

Figure 18: IAR Embedded Workbench ® sold to >46,000 customer organisations

IDE Tools	Build Tools	C-SPY Debugger	C-Trust	Embedded Trust
<ul style="list-style-type: none"> - Editor - Project manager - Library Tools 	<ul style="list-style-type: none"> - IAR C/C++ Compiler - Assembler - Linker - RISC-V support 	<ul style="list-style-type: none"> - Simulator driver - Hardware debugging - Power debugging - RTOS plugins 	<ul style="list-style-type: none"> - Adds security to IAR Embedded Workbench - Delivery of secure and encrypted code - Inhibits unauthorized manufacturing 	<ul style="list-style-type: none"> - Security development environment - Identity and certificate management - Secure Boot Manager - Secure deployment and manufacturing mastering



Source: Company (information), DNB Markets (graph structuring)

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Forecast changes – P&L

(SEKm)	New			Old			Change		
	2020e	2021e	2022e	2020e	2021e	2022e	2020e	2021e	2022e
Revenues	395	447	506	406	473	526	-11	-25	-20
Cost of sales	-14	-13	-15	-13	-13	-14	0	0	0
Gross profit	381	434	491	392	460	511	-12	-26	-20
Operating expenses	-243	-262	-280	-249	-269	-287	6	7	7
EBITDA	138	172	211	143	191	225	-6	-18	-13
EBITDA adj	138	172	211	143	191	225	-6	-18	-13
EBITDA margin (%)	34.9	38.5	41.7	35.3	40.3	42.7	-0.5	-1.8	-1.0
Depreciation	-4	-4	-6	-4	-5	-6	0	0	0
Amortisation	-44	-48	-53	-48	-57	-62	3	9	9
EBIT	90	119	152	92	129	157	-2	-9	-4
EBIT adj	90	119	152	92	129	157	-2	-9	-4
Net financial items	-2	-2	-3	-1	-2	-2	-1	0	0
PBT	88	117	149	91	127	154	-3	-10	-5
Taxes	-21	-29	-37	-22	-31	-38	1	2	1
Minorities	0	0	0			0			0
Net profit	67	88	113	69	96	116	-2	-7	-4
Adjustments to net profit	0	0	0	0	0	0	0	0	0
Net profit adj	67	88	113	69	96	116	-2	-7	-4
<i>Per share data (SEK)</i>									
EPS	4.88	6.48	8.28	5.03	7.02	8.54	-0.15	-0.54	-0.27
EPS adj	4.89	6.48	8.28	5.04	7.02	8.54	-0.15	-0.54	-0.27
DPS ordinary	1.50	2.44	3.24	1.50	2.52	3.51	0.00	-0.07	-0.27
DPS	1.50	2.44	3.24	1.50	2.52	3.51	0.00	-0.07	-0.27
<i>Other key metrics (%)</i>									
Revenue growth	-2.7	13.4	13.0	0.0	16.6	11.2	-2.8	-3.1	1.9
EBIT adj growth	-17.2	33.0	27.5	-15.1	40.1	21.6	-2.0	-7.1	5.9
EPS adj growth	-18.0	32.6	27.7	-15.5	39.4	21.8	-2.5	-6.7	6.0
Avg. number of shares (m)	14	14	14	14	14	14	0	0	0
Capex	-92	-84	-77	-96	-100	-89	4	16	11
OpFCF	46	88	134	47	90	136	-1	-2	-2
Working capital	32	56	106	23	45	93	9	10	13
NIBD adj	-6	-23	-64	24	7	-32	-30	-31	-32

Source: DNB Markets

Forecast changes – By segment and assumptions

(SEKm)	New			Old			Change		
	2020e	2021e	2022e	2020e	2021e	2022e	2020e	2021e	2022e
Assumptions									
Revenue org. % YOY	-0.85	17.10	13.02	-2.04	16.22	11.16	1.19	0.88	1.86
Structure impact % YOY	0.00	0.00	0.00			0.00			0.00
Currency impact % YOY	-1.88	-3.68	0.00	2.95	0.34	0.00	-4.84	-4.02	0.00

Source: DNB Markets

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Quarterly numbers

(SEKm)	Q1 2019	Q2 2019	Q3 2019	Q4 2019	Q1 2020	Q2 2020	Q3 2020e	Q4 2020e	Q1 2021e	Q2 2021e	Q3 2021e
Revenues	100	99	100	107	92	100	90	112	103	110	106
Cost of sales	-2	-3	-3	-4	-4	-3	-2	-4	-3	-3	-2
Gross profit	98	97	98	103	88	97	88	108	100	107	104
Operating expenses	-59	-64	-60	-66	-62	-60	-58	-64	-66	-63	-62
EBITDA	38	33	38	37	27	37	31	44	34	44	42
Depreciation	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
Amortisation	-9	-8	-9	-9	-12	-11	-10	-12	-12	-11	-11
EBIT	29	24	28	27	14	25	20	30	21	32	30
Net financial items	0	-2	1	0	0	-2	0	0	0	-2	0
PBT	29	22	29	27	14	23	20	30	21	29	30
Taxes	-6	-5	-7	-7	-3	-6	-5	-7	-5	-7	-7
Minorities	0	0	0	0	0	0	0	0	0	0	0
Net profit	23	17	22	20	11	18	15	23	16	22	22
Adjustments to net profit	0	0	0	0	0	0	0	0	0	0	0
Net profit adj	23	17	22	20	11	18	15	23	16	22	22
Dividend paid	0	-68	0	0	0	0	0	-20	0	-33	0
Avg. number of shares (m)	14	14	14	14	14	14	14	14	14	14	14
<i>Per share data (SEK)</i>											
EPS	1.68	1.23	1.58	1.47	0.81	1.29	1.10	1.68	1.15	1.63	1.65
EPS adj	1.64	1.20	1.58	1.46	0.81	1.29	1.10	1.68	1.15	1.63	1.65
DPS ordinary	0.00	5.00	0.00	0.00	0.00	0.00	0.00	1.50	0.00	2.44	0.00
DPS	0.00	5.00	0.00	0.00	0.00	0.00	0.00	1.50	0.00	2.44	0.00
<i>Growth and margins (%)</i>											
Revenues, QOQ growth	-2.9	-0.8	1.0	6.8	-13.6	8.5	-9.6	23.4	-7.5	6.6	-3.6
Revenues, YOY growth	12.3	3.6	2.1	3.9	-7.5	1.1	-9.5	4.5	11.9	10.0	17.3
EPS adj, YOY growth	-9.2	-16.1	-19.8	-8.5	-50.4	7.8	-30.4	15.0	41.5	26.2	49.8
Gross margin	97.9	97.5	97.5	96.5	95.7	96.6	97.4	96.4	97.2	96.9	97.7
EBITDA adj margin	38.5	33.2	37.5	34.6	28.8	36.8	33.8	39.1	33.2	40.1	39.6
Depreciation/revenues	-0.5	-1.0	-0.7	-0.8	-0.8	-1.2	-0.7	-0.9	-0.8	-1.3	-0.8
EBIT adj margin	29.5	24.0	28.1	25.4	15.6	25.0	22.1	27.3	20.5	28.7	28.0
Net profit margin	22.9	16.9	21.6	18.7	12.0	17.6	16.6	20.6	15.2	20.1	21.2

Source: Company (historical figures), DNB Markets (estimates)

Adjustments to quarterly numbers

(SEKm)	Q1 2019	Q2 2019	Q3 2019	Q4 2019	Q1 2020	Q2 2020	Q3 2020e	Q4 2020e	Q1 2021e	Q2 2021e	Q3 2021e
EBITDA	38	33	38	37	27	37	31	44	34	44	42
EBITDA adj	38	33	38	37	27	37	31	44	34	44	42
EBIT	29	24	28	27	14	25	20	30	21	32	30
Other EBIT adjustments	0	0	0	0	0	0	0	0	0	0	0
EBIT adj	29	24	28	27	14	25	20	30	21	32	30
Net profit	23	17	22	20	11	18	15	23	16	22	22
Other EBIT adjustments	0	0	0	0	0	0	0	0	0	0	0
Tax adjustments	0	0	0	0	0	0	0	0	0	0	0
Other adjustments	0	0	0	0	0	0	0	0	0	0	0
Net profit adj	23	17	22	20	11	18	15	23	16	22	22

Source: Company (historical figures), DNB Markets (estimates)

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Quarterly numbers by segment and assumptions

(SEKm)	Q1 2019	Q2 2019	Q3 2019	Q4 2019	Q1 2020	Q2 2020	Q3 2020e	Q4 2020e	Q1 2021e	Q2 2021e	Q3 2021e
Assumptions											
Revenue org. % YOY	3.49	-2.30	-2.76	-1.26	-11.12	-0.81	-3.61	11.29	18.89	17.15	18.25
Structure impact % YOY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Currency impact % YOY	8.77	5.86	4.90	5.16	3.61	1.92	-5.91	-6.77	-7.01	-7.19	-0.93

Source: Company (historical figures), DNB Markets (estimates)

Annual P&L

(SEKm)	2013	2014	2015	2016	2017	2018	2019	2020e	2021e	2022e
Revenues	236	256	312	328	345	385	406	395	447	506
Cost of sales	-15	-13	-10	-12	-9	-9	-11	-14	-13	-15
Gross profit	222	243	301	316	337	376	395	381	434	491
Operating expenses	-171	-179	-203	-203	-209	-236	-249	-243	-262	-280
EBITDA	51	64	98	113	127	140	146	138	172	211
Depreciation	-2	-2	-3	-3	-2	-3	-3	-4	-4	-6
Amortisation	-7	-8	-12	-14	-17	-22	-34	-44	-48	-53
EBIT	41	53	83	97	107	116	108	90	119	152
Net financial items	0	0	0	0	-2	-2	-1	-2	-2	-3
PBT	37	54	83	100	106	117	107	88	117	149
Taxes	-12	-11	-20	-22	-26	-26	-26	-21	-29	-37
Effective tax rate (%)	31	21	24	22	24	22	24	24	25	25
Minorities	0	0	0	0	0	0	0	0	0	0
Net profit	26	42	63	78	80	91	81	67	88	113
Adjustments to net profit	3	0	0	-3	0	-2	0	0	0	0
Net profit adj	29	42	63	75	80	88	81	67	88	113
Dividend paid	-23	0	-63	-88	-63	-68	-68	-20	-33	-44
Avg. number of shares	12	13	13	13	13	14	14	14	14	14
<i>Per share data (SEK)</i>										
EPS	2.10	3.34	5.02	6.18	6.33	6.67	5.96	4.88	6.48	8.28
EPS adj	2.10	3.34	5.02	6.18	6.33	6.67	5.96	4.89	6.48	8.28
DPS ordinary	1.85	0.00	5.00	7.00	5.00	5.00	3.00	1.50	2.44	3.24
DPS	1.85	0.00	5.00	7.00	5.00	5.00	3.00	1.50	2.44	3.24
<i>Growth and margins (%)</i>										
Revenue growth	2.7	8.3	21.9	5.4	5.1	11.7	5.3	-2.7	13.4	13.0
EPS adj growth	83.4	59.2	50.2	23.0	2.6	5.3	-10.6	-18.0	32.6	27.7
Gross margin	93.9	95.0	96.7	96.3	97.5	97.7	97.3	96.5	97.1	97.1
EBITDA margin	21.4	24.9	31.5	34.5	36.9	36.4	35.9	34.9	38.5	41.7
EBITDA adj margin	21.4	24.9	31.5	34.5	36.9	36.4	35.9	34.9	38.5	41.7
Depreciation/revenues	-0.9	-0.9	-0.8	-0.8	-0.7	-0.7	-0.8	-0.9	-1.0	-1.1
EBIT margin	17.5	20.8	26.8	29.4	31.1	30.0	26.7	22.8	26.7	30.1
EBIT adj margin	15.8	20.8	26.8	30.6	31.1	30.8	26.7	22.8	26.7	30.1
PBT margin	15.8	21.0	26.7	30.5	30.6	30.4	26.4	22.2	26.1	29.5
Net profit margin	11.0	16.5	20.3	23.8	23.2	23.6	20.0	16.9	19.7	22.3

Source: Company (historical figures), DNB Markets (estimates)

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Adjustments to annual P&L

(SEKm)	2013	2014	2015	2016	2017	2018	2019	2020e	2021e	2022e
EBITDA	51	64	98	113	127	140	146	138	172	211
EBITDA adj	51	64	98	113	127	140	146	138	172	211
EBIT	41	53	83	97	107	116	108	90	119	152
Other EBIT adjustments	4	0	0	-4	0	-3	0	0	0	0
EBIT adj	37	53	83	101	107	119	108	90	119	152
Net profit	26	42	63	78	80	91	81	67	88	113
Other EBIT adjustments	4	0	0	-4	0	-3	0	0	0	0
Tax adjustments	0	0	0	0	0	0	0	0	0	0
Other adjustments	0	0	0	0	0	0	0	0	0	0
Net profit adj	29	42	63	75	80	88	81	67	88	113
<i>Per share data (SEK)</i>										
EPS	2.10	3.34	5.02	6.18	6.33	6.67	5.96	4.88	6.48	8.28
Recommended adjustment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
EPS adj	2.10	3.34	5.02	6.18	6.33	6.67	5.96	4.89	6.48	8.28

Source: Company (historical figures), DNB Markets (estimates)

Cash flow

(SEKm)	2013	2014	2015	2016	2017	2018	2019	2020e	2021e	2022e
Net profit	26	42	63	78	80	91	81	67	88	113
Depreciation and amortisation	9	10	15	17	20	25	37	48	53	59
Cash flow from operations (CFO)	41	70	99	114	124	93	106	127	134	162
Capital expenditure	-21	-32	-19	-19	-19	-47	-84	-92	-84	-77
Acquisitions/Investments	0	0	0	0	0	-171	-19	0	0	0
Divestments	0	0	1	0	0	0	0	0	0	0
Cash flow from investing (CFI)	-19	-32	-18	-19	-38	-218	-102	-92	-84	-77
Free cash flow (FCF)	22	39	80	95	86	-125	4	36	50	85
Net change in debt	0	0	0	0	0	0	30	5	0	0
Dividends paid	-23	0	-63	-88	-63	-68	-68	-20	-33	-44
Share issue (repurchase)	22	-53	0	0	0	172	0	0	0	0
Other	12	0	0	0	0	4	-14	-22	0	0
Cash flow from financing (CFF)	12	-53	-64	-88	-63	108	-52	-37	-33	-44
Total cash flow (CFO+CFI+CFF)	33	-15	17	7	23	-17	-49	-1	17	40
<i>FCFF calculation</i>										
Free cash flow	22	39	80	95	86	-125	4	36	50	85
Less: tax shields/other	0	0	0	0	0	0	0	0	0	0
Less: acquisitions	0	0	0	0	0	171	19	0	0	0
Less: divestments	0	0	-1	0	0	0	0	0	0	0
Growth (%)										
CFO	6.3	72.7	40.4	15.7	8.5	-25.3	14.1	20.5	5.5	20.5
CFI	-5.5	-66.0	42.3	-3.3	-98.9	-478.5	53.0	10.4	8.0	8.3
FCF	6.9	78.7	108.3	18.5	-9.4	-244.7	102.8	922.8	40.1	68.7
CFF	1866.7	-550.8	-19.5	-39.0	28.5	270.4	-148.3	28.4	10.6	-32.6
FCFF	nm	nm	nm	nm	nm	nm	nm	nm	nm	nm

Source: Company (historical figures), DNB Markets (estimates)

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Balance sheet

(SEKm)	2013	2014	2015	2016	2017	2018	2019	2020e	2021e	2022e
Assets	370	375	399	396	410	722	825	857	912	983
Inventories	3	4	5	6	5	7	7	7	8	9
Trade receivables	34	39	44	48	51	63	67	67	72	83
Other receivables	15	11	20	19	12	38	52	63	63	63
Current financial assets	1	0	0	0	0	0	0	0	0	0
Cash and cash equivalents	82	71	89	99	120	106	61	60	76	117
Current assets	135	124	158	172	187	214	186	196	220	272
Property, plant and equipment	6	8	7	6	6	9	64	8	7	5
Other intangible assets	164	186	192	197	194	484	568	648	680	701
Deferred tax assets	59	51	37	16	3	13	5	2	2	2
Non-current financial assets	5	6	5	5	20	2	2	2	2	2
Non-current assets	235	251	241	224	223	508	639	661	692	710
Total assets	370	375	399	396	410	722	825	857	912	983
Equity and liabilities	370	375	399	396	410	722	825	857	912	983
Total equity	295	289	291	280	290	550	592	619	674	742
Trade payables	6	5	5	5	6	7	9	12	11	14
Other payables and accruals	54	65	84	92	31	131	117	48	48	48
Short-term debt	1	1	1	1	1	2	38	17	17	17
Total current liabilities	61	71	90	99	102	140	164	164	164	166
Long-term debt	1	2	1	2	2	1	41	36	36	36
Deferred tax liabilities	13	15	17	15	14	30	27	37	37	37
Other non-current liabilities	0	0	1	1	2	2	1	1	1	1
Total non-current liabilities	14	16	18	18	17	32	69	74	74	74
Total liabilities	75	87	108	116	120	172	233	238	238	240
Total equity and liabilities	370	375	399	396	410	722	825	857	912	983
<i>Key metrics</i>										
Net interest bearing debt	-79	-68	-88	-97	-117	-103	18	-6	-23	-64

Source: Company (historical figures), DNB Markets (estimates)

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Valuation ratios

(SEKm)	2013	2014	2015	2016	2017	2018	2019	2020e	2021e	2022e
<i>Enterprise value</i>										
Share price (SEK)	39.77	74.75	150.00	206.00	189.00	243.00	186.00	162.60	162.60	162.60
Number of shares (m)	12.34	12.63	12.63	12.63	12.63	13.62	13.63	13.63	13.63	13.63
Market capitalisation	491	944	1,895	2,602	2,387	3,310	2,535	2,216	2,216	2,216
Net interest bearing debt	-79	-68	-88	-97	-117	-103	18	-6	-23	-64
Adjustments to NIBD	0	0	0	0	0	0	0	0	0	0
Net interest bearing debt adj	-79	-68	-88	-97	-117	-103	18	-6	-23	-64
EV	411	876	1,807	2,505	2,270	3,206	2,554	2,210	2,193	2,153
EV adj	411	876	1,807	2,505	2,270	3,206	2,554	2,210	2,193	2,153
<i>Valuation</i>										
EPS	2.10	3.34	5.02	6.18	6.33	6.67	5.96	4.88	6.48	8.28
EPS adj	2.10	3.34	5.02	6.18	6.33	6.67	5.96	4.89	6.48	8.28
DPS ordinary	1.85	0.00	5.00	7.00	5.00	5.00	3.00	1.50	2.44	3.24
DPS	1.85	0.00	5.00	7.00	5.00	5.00	3.00	1.50	2.44	3.24
P/E	18.9	22.4	29.9	33.4	29.8	36.4	31.2	33.3	25.1	19.6
P/E adj	18.9	22.4	29.9	33.4	29.8	36.4	31.2	33.3	25.1	19.6
P/B	1.66	3.27	6.51	9.31	8.22	6.02	4.28	3.58	3.29	2.99
Average ROE	9.4%	14.5%	21.9%	27.3%	28.1%	21.6%	14.2%	11.0%	13.7%	15.9%
Earnings yield adj	5.3%	4.5%	3.3%	3.0%	3.4%	2.7%	3.2%	3.0%	4.0%	5.1%
Dividend yield	4.6%	0.0%	3.3%	3.4%	2.6%	2.1%	1.6%	0.9%	1.5%	2.0%
Free cash flow yield	4.4%	4.1%	4.2%	3.7%	3.6%	-3.8%	0.1%	1.6%	2.3%	3.8%
EV/SALES	1.74	3.42	5.80	7.63	6.58	8.32	6.30	5.60	4.90	4.26
EV/SALES adj	1.74	3.42	5.80	7.63	6.58	8.32	6.30	5.60	4.90	4.26
EV/EBITDA	8.1	13.8	18.4	22.1	17.8	22.9	17.5	16.1	12.7	10.2
EV/EBITDA adj	8.1	13.8	18.4	22.1	17.8	22.9	17.5	16.1	12.7	10.2
EV/EBIT	10.0	16.5	21.7	26.0	21.1	27.7	23.6	24.6	18.4	14.1
EV/EBIT adj	11.0	16.5	21.7	24.9	21.1	27.0	23.6	24.6	18.4	14.1
EV/capital employed	1.4	3.0	6.2	8.9	6.4	5.8	3.8	2.9	2.7	2.4
EV/NOPLAT	13.5	22.2	29.3	35.1	28.6	37.5	31.8	33.3	24.8	19.1
EV/OpFCF (taxed)	20.8	50.1	31.6	36.6	28.3	51.4	75.1	97.3	38.5	22.9

Source: Company (historical figures), DNB Markets (estimates)

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Key accounting ratios

	2013	2014	2015	2016	2017	2018	2019	2020e	2021e	2022e
<i>Profitability (%)</i>										
ROA	7.5	11.3	16.4	19.6	19.9	16.0	10.5	7.9	10.0	11.9
ROCE	13.4	18.1	28.5	34.9	33.6	26.1	17.7	12.6	15.2	18.0
ROCE after tax	9.9	13.4	21.1	25.8	24.8	19.3	13.1	9.3	11.2	13.3
<i>Return on invested capital (%)</i>										
Net PPE/revenues	2.6	3.1	2.1	1.9	1.8	2.3	15.7	2.1	1.6	1.0
Working capital/revenues	31.2	20.9	22.0	22.4	24.6	19.3	5.4	8.2	12.5	20.9
<i>Cash flow ratios (%)</i>										
FCF/revenues	9.1	15.1	25.8	29.0	25.0	-32.4	0.9	9.1	11.2	16.7
FCF yield	4.4	4.1	4.2	3.7	3.6	1.4	0.9	1.6	2.3	3.8
CFO/revenues	17.2	27.5	31.7	34.8	35.9	24.0	26.1	32.3	30.0	32.0
CFO/market capitalisation	8.3	7.4	5.2	4.4	5.2	2.8	4.2	5.7	6.1	7.3
CFO/capex	192.9	217.6	508.8	614.0	652.1	197.9	126.4	139.1	159.5	209.5
CFO/current liabilities	66.8	99.4	110.2	115.8	121.1	66.2	64.4	77.6	82.0	97.4
Cash conversion ratio	83.4	91.5	126.8	122.2	107.9	-137.6	4.3	53.7	56.8	75.0
Capex/revenues	8.9	12.6	6.2	5.7	5.5	12.1	20.6	23.2	18.8	15.3
Capex/depreciation	959.1	1404.3	776.0	744.0	791.7	1800.0	2696.8	2555.2	1891.1	1383.9
OpFCF margin	12.5	12.2	25.3	28.8	31.4	24.2	15.3	11.7	19.7	26.4
Total payout ratio	88.0	0.0	99.6	113.3	78.9	75.0	50.4	30.7	37.7	39.2
<i>Leverage and solvency (x)</i>										
Net debt/EBITDA	-1.57	-1.08	-0.89	-0.85	-0.92	-0.74	0.13	-0.05	-0.13	-0.30
Total debt/total capital (BV)	0.01	0.01	0.00	0.01	0.01	0.00	0.10	0.06	0.06	0.05
LTD / (LTD + equity (MV))	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.02	0.02	0.02
<i>Cash conversion cycle</i>										
Inventory turnover days	83.1	104.7	180.7	167.5	223.3	267.7	223.1	183.3	222.8	226.1
Receivables turnover days	75.3	70.9	74.5	74.7	66.2	96.1	106.8	120.2	110.5	105.5
Credit period	143.5	147.1	170.1	158.6	244.8	296.1	310.9	307.0	317.8	337.9
Cash conversion cycle	14.8	28.5	85.1	83.7	44.8	67.7	18.9	-3.4	15.4	-6.3

Source: Company (historical figures), DNB Markets (estimates)

19 August 2020

Important Information

Company: IAR Systems
 Coverage by Analyst: Joachim Gunell
 Date: 19/08/2020

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% of total	56%	25%	9%	9%	
DNB Markets client	19%	12%	3%	3%	98

19 August 2020

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19 August 2020

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