

IAR SYSTEMS

Investing to secure growth

We believe demand has remained strong, and forecast sales growth of 18% YOY in Q3 (9% organic). For H2e we see rising opex depressing short-term profitability, and a lower incremental margin in 2018e, the first squeeze in nine years. With positive newsflow for its security offering (Embedded Trust (ET) and C-Trust (CT)), the stage looks set for growth in 2019–2020, with the true potential beyond our forecast period. Ahead of the Q3 results (due at 15:00 CET on 9 November), we keep our fair value of SEK270–330.

IoT security a hot topic = music to the ears of Secure Thingz. We note an increased awareness of potential security concerns implementing IoT (excluding Chinese spy chips pressuring supply chain management, reports that US weapons systems can be hacked, STMicroelectronics, and NXP launching secure MCUs (chips)).

Q3 preview. We expect 9% Q3 organic sales growth YOY to lead to sales of SEK99m (total sales growth of 18% YOY, boosted 9% by FX), driven by: 1) continued focus on large, strategic customers; and 2) still-strong demand from automotive customers. Moreover, we expect Secure Thingz sales of SEK2m in Q3, as it has yet to commercially launch ET. As highlighted in our Q2 review, hiring software engineers is set to drive up opex. We therefore forecast EBIT of SEK26m, corresponding to a 25.9% margin – down 8%-points YOY. We believe investors are willing to overlook short-term pressure as long as the growth opportunity, particularly in Secure Thingz, remains on track.

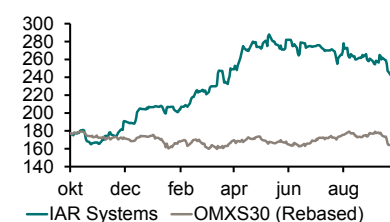
Estimate changes. We have trimmed our 2018–2020e EBIT by c2%, explained by our expectations of: 1) no pick-up in Renesas royalty revenues for 2018; 2) rising opex following new hires (we forecast 190 employees by end-Q3) with back-end heavy sales; 3) unfavourable FX since our Q2 estimates; 4) offset by slightly higher growth assumptions for Secure Thingz (ET and CT), which we forecast should be c6% of sales in 2019e and 11% of sales in 2020e, resulting in a 2017–2020e EBIT CAGR of 21%.

Fair value unchanged at SEK270–330. We find the valuation attractive, even though the shares are trading at historical highs as we believe IAR Systems will regain investor confidence and prove its credentials on its growth trajectory. Our estimates correspond to a 2019e P/E of 32x, an EV/EBIT of 22x, and an EV/sales of 7x.

Year-end Dec	2014	2015	2016	2017	2018e	2019e	2020e
Revenue (SEKm)	256	312	328	345	388	451	520
EBIT adj (SEKm)	53	83	101	107	114	146	188
PTP (SEKm)	54	83	100	106	111	143	185
EPS rep (SEK)	3.34	5.02	6.18	6.33	6.09	7.75	10.01
EPS adj (SEK)	3.34	5.02	6.18	6.33	6.18	7.75	10.01
DPS (SEK)	0.00	5.00	7.00	5.00	5.00	5.50	6.00
Revenue growth (%)	8.3	21.9	5.4	5.1	12.6	16.1	15.4
EPS growth adj (%)	59.2	50.2	23.0	2.6	-2.5	25.5	29.1
P/E adj (x)	22.4	29.9	33.4	29.8	40.1	32.0	24.8
P/Book (x)	3.27	6.51	9.31	8.22	6.14	5.82	5.32
ROE (%)	14.5	21.9	27.3	28.1	20.0	18.7	22.4
ROCE (%)	18.1	28.5	34.9	36.7	26.6	25.7	30.9
Dividend yield (%)	0.0	3.3	3.4	2.6	2.0	2.2	2.4

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

IARB versus OMXS30 (12m)



Source: Factset

SUMMARY

Share price (SEK)	248
Tickers	IARB SS, IARb.ST

CAPITAL STRUCTURE

No. of shares fully dil. (m)	13.6
NIBD adj end-2018e (SEKm)	-121

Source: Company, DNB Markets (estimates)

Note: Unless otherwise stated, the share prices in this note are the last closing price.

NEXT EVENT

This report has been commissioned and paid for by the company, and is deemed to constitute an acceptable minor non-monetary benefit as defined in MiFID II

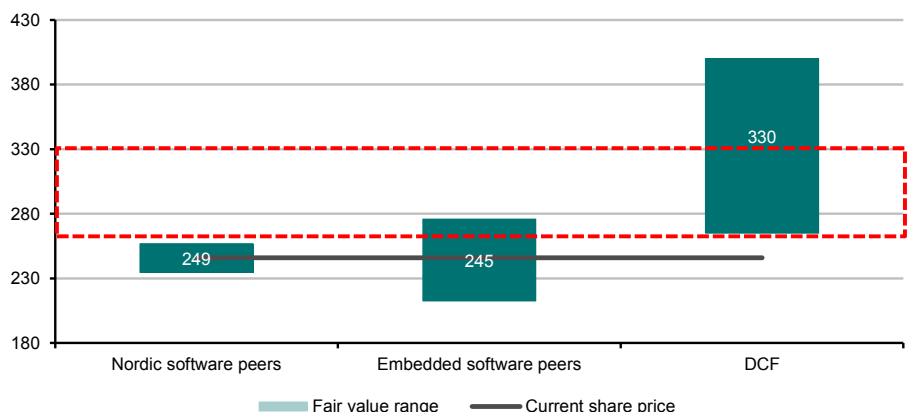
ANALYSTS

Joachim Gunell

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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 its ability to reinstate growth could trigger a devaluation of the shares, as in 2017.
- Disappointing disclosures regarding key strategic partnerships in terms of when they will materialise and fee structure. For instance, the Renesas Synergy agreement has yet to show itself in IAR Systems' sales.
- 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 3.0 will be when the market stops seeing IAR Systems as a compiler supplier and instead starts to view it as the go-to tools partner for global players as they position their embedded systems ahead of the Internet of Things. We particularly highlight the market opportunity within secure embedded systems.
- A broad consensus has yet to emerge on IAR Systems' investment case; however, we particularly like the group's market opportunity, operating profile, financial outlook and valuation.

Source: DNB Markets

Valuation methodology

- Blending our total peer group of Nordic software and embedded software peers with DCF suggests a fair value of SEK270–330 in our 12-month perspective (methodology unchanged.)
- Using just our embedded systems peers implies a fair value of SEK250–310. We believe these peers (rather than Nordic software peers) better reflect IAR Systems' operating environment, business model, and growth prospects.
- Our estimates correspond to a 2019e P/E of 31.7x, EV/EBIT of 22.1x, and EV/Sales of 7.1x.

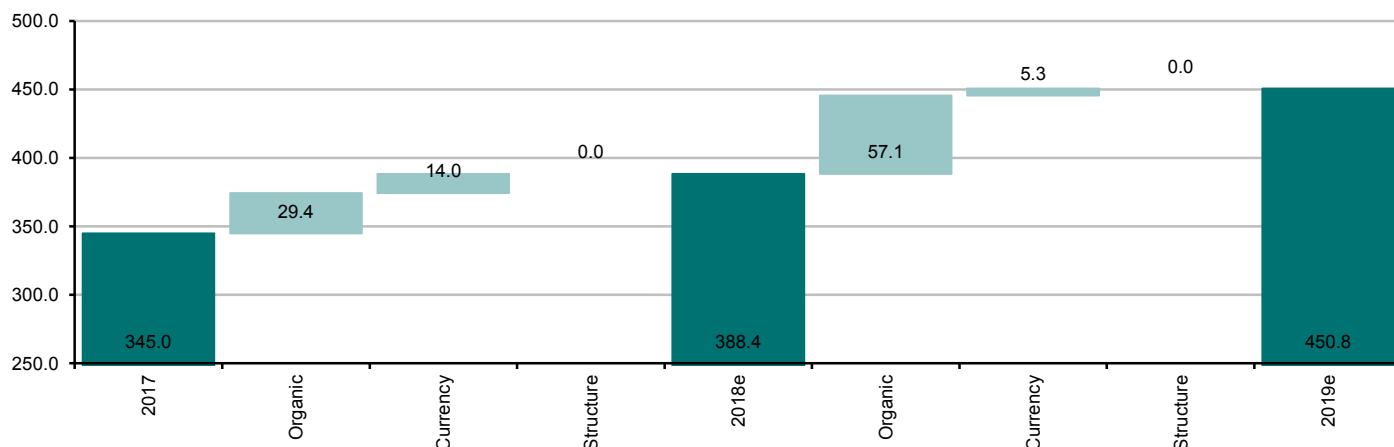
Source: DNB Markets

Upside risks to our fair value

- The company over-delivering on its financial targets (particularly in organic growth of 10–15%)
- IAR Systems' new security offering gaining faster penetration than we assume by leveraging on its head-start.
- Value-enhancing acquisitions to be integrated in its product offering or new strategic partnerships.

Source: DNB Markets

Sales bridge 2017–2019e (SEKm)



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

Q3 preview

We expect 9% Q3 organic sales growth YOY to lead to sales of SEK99m (total sales growth of 16% YOY, boosted 9% by FX tailwinds) driven by: 1) continued focus on large, strategic customers; 2) still-strong demand from automotive customers; and 3) signs of recovery in the Americas owing to point 1. Moreover, we expect Secure Thingz sales of SEK2m in Q3 as it has yet to commercially launch ET, and royalty sales from Renesas Electronics pertain only to the guaranteed minimum remuneration. As highlighted in our Q2 review, hiring software engineers (most of whom are developers in Secure Thingz) is set to drive up opex. We therefore forecast EBIT of SEK26m, corresponding to a 25.9% margin – down 8%-points YOY. We believe Investors are willing to overlook short-term pressure as the growth opportunity, particularly in Secure Thingz, remains on track.

Figure 1: DNB Markets Q3 2018 expectations

Key highlights (SEKm, except per share data)	Q3 2018		Deviation		Q3 2017	DNBe
	Actual	DNB	DNB	DNB	Actual	2018e
Sales		99.1			84.2	388.4
EBIT adjusted		25.7			28.6	113.9
Margin		25.9%			34.0%	29.3%
One-offs		0.0			0.0	-3.2
EBIT		25.7			28.6	110.7
Margin		25.9%			34.0%	28.5%
EPS		1.38			1.61	6.09
Growth YOY						
Sales growth		17.7%			3.8%	12.6%
-of w hich organic		8.6%			8.4%	6.7%
-of w hich FX		9.1%			-4.6%	5.8%
Divisions (SEKm)		Q3 2018			Q3 2017	DNBe
		DNB			Actual	2018e
Sales						
Legacy IAR Systems		95.2			82.9	374.9
Royalty-based revenue		1.8			1.3	7.1
Secure Thingz		2.0				6.4
Group		99.1			84.2	388.4
EBIT adjusted						
Legacy IAR Systems + Secure Thingz		23.8			27.3	107.1
Royalty-based revenue		1.8			1.3	6.8
Group		25.7			28.6	113.9
FX impact						
Sales		9.1%			-4.6%	4.0%
EBIT		22.1%			-10.3%	12.2%

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

21 October 2018

Estimate revisions

We have trimmed our 2018–2020e EBIT by c2%, explained by our expectations of: 1) no pick-up in Renesas royalty revenues for 2018; 2) rising opex following new hires (we forecast 190 employees by end-Q3) with back-end heavy sales; 3) unfavourable FX since our Q2 estimates; 4) offset by slightly higher growth assumptions for Secure Thingz (ET and CT), which we forecast should be c6% of sales in 2019e and 11% of sales in 2020e, resulting in a 2017–2020e EBIT CAGR of 21%.

Figure 2: Estimate changes

(SEKm, except per share data)	Old			New			Change		
	2018e	2019e	2020e	2018e	2019e	2020e	2018e	2019e	2020e
Sales									
Legacy IAR Systems	373.9	410.0	438.9	374.9	406.3	436.2	0%	-1%	-1%
Royalty-based revenue	8.2	18.9	31.7	7.1	16.9	26.8	-14%	-11%	-15%
Secure Thingz	6.4	26.7	54.9	6.4	27.6	57.1	-1%	3%	4%
Group Total	388.5	455.6	525.5	388.4	450.8	520.2	0%	-1%	-1%
EBIT adjusted									
Legacy IAR Systems + Secure Thingz	108.1	133.6	156.8	103.9	129.5	162.7	-4%	-3%	4%
Royalty-based revenue	8.2	18.9	31.7	6.8	16.2	25.8	-17%	-15%	-19%
Group Total	119.2	151.4	187.0	113.9	145.7	188.5	-4%	-4%	1%
EBIT adjusted margin									
Legacy IAR Systems + Secure Thingz	28.9%	32.6%	35.7%	27.7%	31.9%	37.3%	-119bp	-72bp	159bp
Royalty-based revenue	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	0bp	0bp	0bp
Group Total	30.7%	33.2%	35.6%	29.3%	32.3%	36.2%	-137bp	-88bp	64bp
Organic growth									
Legacy IAR Systems	6.5%	6.8%	6.7%	6.7%	7.1%	6.9%	24bp	31bp	20bp
Royalty-based revenue	0.3%	2.5%	2.7%	0.0%	2.4%	2.1%	-34bp	-9bp	-55bp
Secure Thingz	1.8%	4.9%	5.9%	1.8%	5.2%	6.3%	0bp	31bp	45bp
Group Total	8.5%	14.2%	15.3%	8.5%	14.7%	15.4%	2bp	51bp	10bp
Group									
Sales	388.5	455.6	525.5	388.4	450.8	520.2	0%	-1%	-1%
Sales growth	12.6%	17.3%	15.3%	12.6%	16.1%	15.4%	-3bp	-123bp	10bp
Organic	6.8%	9.0%	9.4%	6.7%	9.5%	9.1%	-5bp	47bp	-35bp
Structure	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0bp	0bp	0bp
Currency	4.1%	3.0%	0.0%	4.0%	1.4%	0.0%	-5bp	-164bp	0bp
Gross profit	378.4	443.8	511.9	378.3	439.1	506.7	0%	-1%	-1%
Margin	97.4%	97.4%	97.4%	97.4%	97.4%	97.4%	1bp	0bp	0bp
EBIT adjusted	119.2	151.4	187.0	113.9	145.7	188.5	-4%	-4%	1%
Margin	30.7%	33.2%	35.6%	29.3%	32.3%	36.2%	-135bp	-91bp	65bp
Adjustments	-3.2	0.0	0.0	-3.2	0.0	0.0			
EBIT	116.0	151.4	187.0	113.9	145.7	188.5			
Margin	29.9%	33.2%	35.6%	29.3%	32.3%	36.2%	-53bp	-91bp	65bp
Net financial items	-2.7	-2.5	-3.6	-2.7	-2.4	-3.5			
Pretax profit	116.4	148.9	183.4	111.2	143.3	185.0	-4%	-4%	1%
Tax	-28.5	-39.3	-48.3	-27.1	-37.8	-48.8	-5%	-4%	1%
Tax rate	24.5%	26.4%	26.4%	24.4%	26.4%	26.4%	-8bp	0bp	0bp
Net profit	88.0	109.7	135.0	84.1	105.5	136.2	-4%	-4%	1%
EPS adjusted	6.46	8.06	9.92	6.18	7.75	10.01	-4%	-4%	1%
EPS	6.37	8.06	9.92	6.09	7.75	10.01	-4%	-4%	1%
DPS	5.00	5.50	6.00	5.00	5.50	6.00	0%	0%	0%

Source: DNB Markets

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Figure 3: Quarterly estimates by division

(SEKm, except per share data)	Q1'17	Q2'17	Q3'17	Q4'17	Q1'18	Q2'18	Q3'18e	Q4'18e	Q1'19e	Q2'19e	Q3'19e	Q4'19e
Sales												
Legacy IAR Systems	83.5	85.4	82.9	86.4	87.6	93.8	95.2	98.1	99.2	101.7	101.1	104.3
Royalty-based revenue	2.9	1.4	1.3	1.2	1.3	1.3	1.8	2.7	3.4	4.1	4.3	5.1
Secure Thingz	0.0	0.0	0.0	0.0	0.0	0.5	2.0	4.0	4.8	5.8	7.6	9.4
Group Total	86.4	86.8	84.2	87.6	88.9	95.6	99.1	104.8	107.5	111.6	113.0	118.7
EBIT adjusted												
Legacy IAR Systems + Secure Thingz	23.3	24.4	27.3	25.6	28.2	22.4	24.0	29.3	29.7	31.2	31.3	37.3
Royalty-based revenue	2.9	1.4	1.3	1.2	1.3	1.3	1.8	2.7	3.4	4.1	4.3	5.1
Group Total	26.2	25.8	28.6	26.8	29.5	26.9	25.7	31.8	33.0	35.2	35.3	42.2
EBIT adjusted margin												
Legacy IAR Systems + Secure Thingz	27.9%	28.6%	32.9%	29.6%	32.2%	23.9%	25.2%	29.9%	30.0%	30.7%	30.9%	35.8%
Royalty-based revenue	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Group Total	30.3%	29.7%	34.0%	30.6%	33.2%	28.1%	25.9%	30.4%	30.7%	31.6%	31.3%	35.5%
Organic growth												
Legacy IAR Systems	2.6%	0.6%	8.3%	8.4%	4.9%	7.9%	5.9%	6.6%	7.2%	7.4%	6.9%	7.0%
Royalty-based revenue	0.1%	0.0%	0.1%	0.1%	0.1%	0.1%	0.5%	1.5%	2.2%	2.9%	2.4%	2.2%
Secure Thingz	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	2.2%	4.3%	5.1%	5.5%	5.3%	4.9%
Group Total	2.7%	0.6%	8.4%	8.5%	5.0%	8.1%	8.6%	12.4%	14.5%	15.7%	14.6%	14.1%
Group												
Sales	86.4	86.8	84.2	87.6	88.9	95.6	99.1	104.8	107.5	111.6	113.0	118.7
Sales growth	7.3%	6.1%	3.8%	3.1%	2.9%	10.1%	17.7%	19.6%	20.9%	16.7%	14.0%	13.3%
Organic	2.7%	0.6%	8.4%	8.5%	5.0%	8.1%	8.6%	12.4%	14.5%	15.7%	14.6%	14.1%
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	4.6%	5.5%	-4.6%	-5.4%	-2.1%	2.1%	9.1%	7.2%	6.4%	1.0%	-0.5%	-0.8%
Gross profit	84.0	85.2	82.3	85.0	86.1	93.7	96.8	101.7	104.1	109.3	110.4	115.2
Margin	97.2%	98.2%	97.7%	97.0%	96.9%	98.0%	97.7%	97.0%	96.9%	98.0%	97.7%	97.0%
EBIT adjusted	26.2	25.8	28.6	26.8	29.5	26.9	25.7	31.8	33.0	35.2	35.3	42.2
Margin	30.3%	29.7%	34.0%	30.6%	33.2%	28.1%	25.9%	30.4%	30.7%	31.6%	31.3%	35.5%
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	26.2	25.8	28.6	26.8	29.5	26.9	25.7	31.8	33.0	35.2	35.3	42.2
Margin	30.3%	29.7%	34.0%	30.6%	33.2%	28.1%	25.9%	30.4%	30.7%	31.6%	31.3%	35.5%
Net financial items	-0.8	-0.1	-0.4	-0.4	-0.4	-1.7	-0.3	-0.4	-0.6	-0.9	-0.4	-0.6
Pretax profit	25.4	25.7	28.2	26.4	29.1	22.0	25.4	31.4	32.4	34.4	34.9	41.6
Tax	-6.6	-4.5	-7.9	-6.7	-6.3	-5.8	-6.7	-8.3	-8.5	-9.1	-9.2	-11.0
Tax rate	26.0%	17.5%	28.0%	25.4%	21.6%	26.4%	26.4%	26.4%	26.4%	26.4%	26.4%	26.4%
Net profit	18.8	21.2	20.3	19.7	22.8	16.2	18.7	23.1	23.8	25.3	25.7	30.6
EPS adjusted	1.49	1.68	1.61	1.56	1.68	1.43	1.38	1.70	1.75	1.86	1.89	2.25
EPS	1.49	1.67	1.61	1.56	1.81	1.20	1.38	1.70	1.75	1.86	1.89	2.25
DPS	0.00	5.00	0.00	0.00	0.00	5.00	0.00	0.00	0.00	5.50	0.00	0.00

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

Figure 4: Peer group (%)

	Sales growth			GM	EBIT margin			EBIT growth			EPS growth			2017–2020e CAGR		
	2018e	2019e	2020e	2017	2018e	2019e	2020e	2018e	2019e	2020e	2018e	2019e	2020e	Sales	EBIT	EPS
IAR Systems (DNBe)	12.6	16.1	15.4	97.5	29.3	32.3	36.2	6.1	27.9	29.4	5.1	25.5	29.1	14.7	20.6	19.4
IAR Systems vs. total peer group	-4.5	1.1	2.6	25.6	5.4	8.1	10.5	-9.8	-5.0	7.3	-16.8	-11.4	8.7	-0.2	-1.0	-3.5
Nordic software peers																
HMS Networks	16.6	16.4	12.3	61.0	17.9	17.8	18.7	15.7	22.2	24.3	18.2	25.6	25.5	15.1	20.7	23.0
SimCorp	12.6	9.4	8.7	61.4	25.9	27.1	27.7	17.9	11.9	10.7	19.9	13.1	11.4	10.2	13.5	14.8
F-Secure	13.4	16.4	7.0	96.1	6.5	3.6	7.5	-37.4	140.1	31.9	-59.6	168.5	38.4	12.2	25.7	14.5
INVISIO Communications	10.7	24.4	27.9	55.3	22.6	21.2	25.3	3.7	48.3	45.9	36.9	48.7	14.1	20.8	30.9	32.4
Fortnox	37.5	27.7	21.4	n.a.	21.9	27.4	33.8	72.1	57.4	42.1	74.0	59.8	41.5	28.7	56.7	57.9
Vitec Software	13.7	5.0	2.4	n.a.	12.5	11.8	12.8	7.5	13.9	9.9	-2.2	7.6	14.8	6.9	10.4	6.5
Average of the above	17.4	16.6	13.3	68.4	17.9	18.2	21.0	13.3	49.0	27.5	14.5	53.9	24.3	15.6	26.3	24.8
DNBe vs. peer group	-4.8	-0.5	2.1	29.1	11.4	14.2	15.3	-7.2	-21.1	1.9	-9.4	-28.4	4.8	-1.0	-5.7	-5.4
Embedded software peers																
Cadence Design Systems	7.1	6.5	5.9	87.8	27.5	28.1	25.9	9.5	-2.0	9.1	19.9	9.8	7.9	6.5	5.4	12.4
ANSYS	12.0	10.0	9.5	86.3	46.4	44.4	44.6	7.2	10.5	11.0	24.5	7.1	15.3	10.5	9.6	15.4
Xilinx	12.1	7.9	10.5	70.0	29.4	29.9	30.5	14.3	10.1	13.8	48.6	10.5	13.5	10.2	12.7	23.1
Altium	36.7	25.7	21.5	44.4	28.3	30.8	32.5	48.7	32.8	27.3	43.9	39.8	25.0	27.8	36.0	36.0
Red Hat	15.6	14.9	14.2	85.3	23.9	23.9	24.3	15.5	17.0	16.4	16.4	14.7	17.1	14.9	16.3	16.1
Average of the above	16.7	13.0	12.3	74.8	31.1	31.4	31.6	19.0	13.7	15.5	30.7	16.4	15.8	14.0	16.0	20.6
DNBe vs. peer group	-4.2	3.1	3.1	22.8	-1.8	0.9	4.7	-13.0	14.2	13.9	-25.6	9.1	13.3	0.7	4.6	-1.2
Average of total peer group	17.1	14.9	12.8	72.0	23.9	24.2	25.8	15.9	32.9	22.0	21.9	36.8	20.4	14.9	21.6	22.9
Median of total peer group	13.4	14.9	10.5	70.0	23.9	27.1	25.9	14.3	17.0	16.4	19.9	14.7	15.3	12.2	16.3	16.1

Source: Factset (15 August 2018)

Note (GM = gross margin)

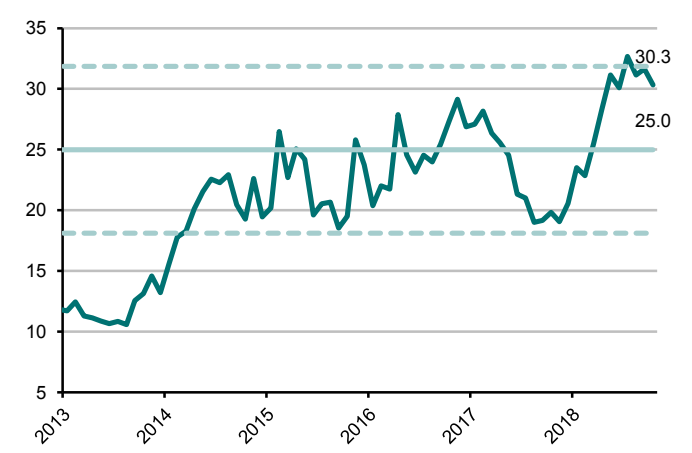
Figure 5: Peer group (x/%)

	M Cap (SEKbn)	P/E (x)			EV/EBITDA (x)			EV/EBIT (x)			FCF Yield 2018e	RoE 2018e	Div. yield 2018e	Performance (%)		
		2018e	2019e	2020e	2018e	2019e	2020e	2018e	2019e	2020e				-1M	-3M	-12M
IAR Systems (DNBe)	3.4	39.8	31.8	24.6	24.2	18.5	14.4	29.6	22.5	17.4	-3.2%	29.0%	2.0%	-4.6	-9.7	42.5
Premium (+) / discount (-)		0%	10%	2%	-1%	-1%	-5%	-2%	2%	-2%						
Nordic software peers																
HMS Networks	6.7	40.0	31.9	25.4	23.9	19.5	15.9	28.7	23.1	18.2	1.2%	20.0%	1.3%	-6.3	-12.3	4.4
SimCorp	28.6	33.9	30.0	26.9	25.1	22.3	20.0	26.1	23.2	20.8	2.0%	54.5%	1.3%	-10.1	-6.7	34.4
F-Secure	4.0	86.9	32.4	23.4	32.9	17.1	13.3	56.2	23.6	17.6	-10.9%	6.4%	1.6%	-23.0	-33.5	-47.2
INVISIO Communications	2.7	31.1	20.9	18.4	27.6	17.9	12.0	29.1	19.4	13.0	2.2%	27.4%	1.4%	-1.5	-6.2	-27.8
Fortnox	4.7	59.8	37.4	26.4	36.5	23.8	16.9	44.3	27.6	18.9	1.4%	47.6%	0.5%	1.3	16.4	88.4
Vitec Software	2.2	31.3	29.1	25.3	11.0	10.3	9.3	25.4	21.7	19.1	-2.5%	16.8%	1.5%	-0.7	0.7	0.7
Average of the above		47.2	30.3	24.3	26.2	18.5	14.6	35.0	23.1	17.9	-1.1%	28.8%	1.3%	-6.7	-6.9	8.8
Premium (+) / discount (-)		-16%	5%	1%	-8%	0%	-1%	-15%	-3%	-3%						
Embedded software peers																
Cadence Design Systems	102.3	23.9	21.8	20.2	18.0	15.9	12.0	18.9	18.5	16.0	4.6%	36.0%	0.0%	-11.2	-11.8	-3.9
ANSYS	116.8	30.8	28.8	25.0	20.8	18.6	16.6	21.8	19.2	16.8	3.3%	16.6%	0.0%	-16.7	-14.9	18.8
Altium	171.8	25.5	23.1	20.3	18.8	16.9	14.9	20.5	18.3	16.2	4.6%	30.9%	1.9%	-2.8	9.7	4.7
Xilinx	18.8	40.9	32.7	27.3	33.2	26.2	20.9	36.3	28.3	22.5	2.7%	45.5%	1.8%	-10.9	5.2	107.5
Red Hat	193.5	35.2	30.7	26.2	21.7	18.2	15.6	24.5	20.2	16.3	4.5%	43.8%	0.0%	-14.4	-17.8	1.2
Average of the above		31.3	27.4	23.8	22.5	19.2	16.0	24.4	20.9	17.5	3.9%	34.5%	0.7%	-11.2	-5.9	25.6
Premium (+) / discount (-)		27%	16%	3%	7%	-3%	-10%	21%	8%	-1%						
Average of total peer group		39.9	29.0	24.1	24.5	18.8	15.2	30.2	22.1	17.7	1.2%	31.4%	1.0%	-8.8	-6.5	16.5
Median of total peer group		33.9	30.0	25.3	23.9	18.2	15.6	26.1	21.7	17.6	2.2%	30.9%	1.3%	-10.1	-6.7	4.4

Source: Factset (15 August 2018)

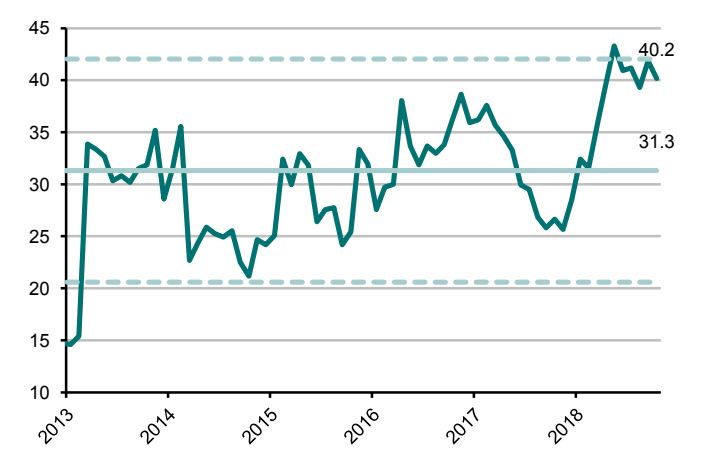
Valuation

Figure 6: IAR Systems EV/EBIT LTM



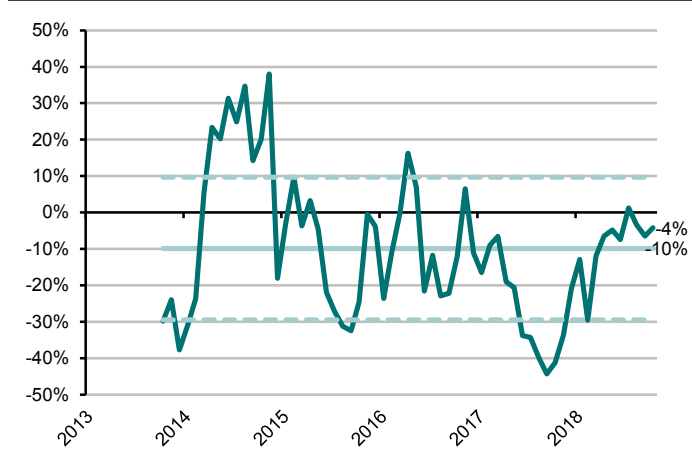
Source: Factset (underlying data), DNB Markets (further calculations)

Figure 7: IAR Systems P/E LTM



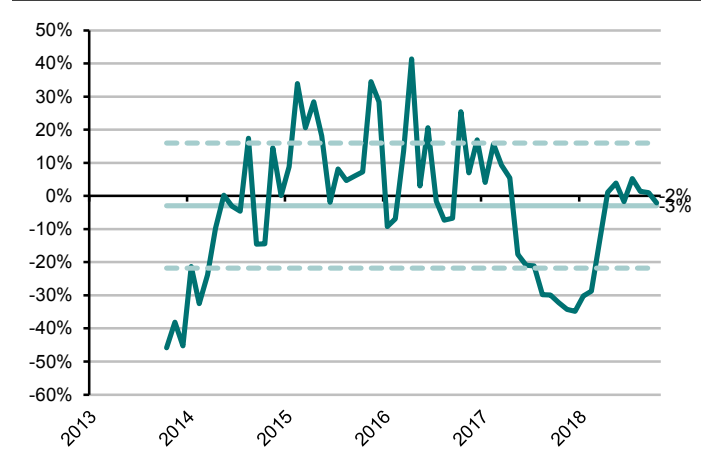
Source: Factset (underlying data), DNB Markets (further calculations)

Figure 8: Premium/discount EV/EBIT LTM IAR Systems to Nordic software peers



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

Figure 9: Premium/discount EV/EBIT LTM IAR Systems to embedded software peers



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

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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 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 day one) 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 ~50% 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 3.0

IAR Systems has gone through various phases since 2010, having: 1) streamlined itself towards proprietary software, creating a more specialised company; and 2) shifted its project-based business model to scalable licence sales, which has substantially improved margins. In our view, it is now heading into its third phase: the growth story. We believe that IAR 3.0 (our interpretation of IAR Systems' next phase) marks the shift from being a supplier of a compiler to become 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 7% market CAGR until 2023e, and we believe the factors that should 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) market consolidation and participants becoming too dominant; and 5) untapped potential in security solutions for embedded systems.

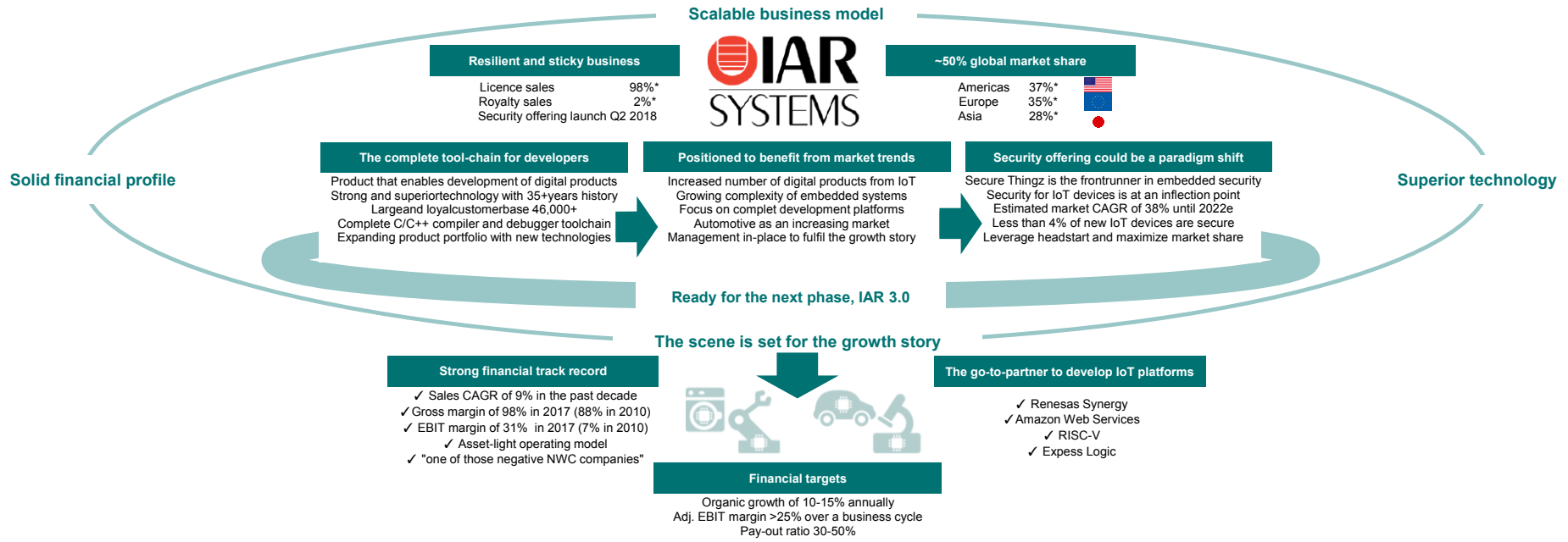
Numerous market drivers indicate a continuation of the solid industry growth

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

Following the acquisition of Secure Thingz, IAR Systems is now the frontrunner in offering secure embedded systems. We believe IAR Systems identified Secure Thingz as a takeover candidate before the market had valued its demand growth opportunity. The security market for embedded systems is in its inception phase but we expect it to grow rapidly through 2022e as the share of secure new embedded products is set to grow from 4% today to almost 20% by 2022e, according to ABI Research. There are no real competitors in this market yet, and if IAR Systems were to capture considerable market share, we believe it could be a paradigm shift for the company. However, to be prudent, we have included minimal sales from its security offering in our estimates, preferring to see sales materialise.

Untapped potential in security offering

Figure 10: IAR Systems' in one picture



Source: Company (underlying data), DNB Markets (compilation)
Note: * Percentage of sales 2017

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We forecast 2017–2020e sales and EBIT CAGRs of 14.7% and 20.6%

We forecast a 2017–2020 sales CAGR of 14.7% and EBIT CAGR of 20.6% 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) royalties from Renesas Electronics. Moreover, we see additional prospects and untapped potential in security solutions for embedded systems.

This should be driven by a 7.4% organic sales CAGR for its legacy licensing business (98% of 2017 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. In addition, increased penetration from existing and new technologies in the IAR Embedded Workbench should drive add-on sales.

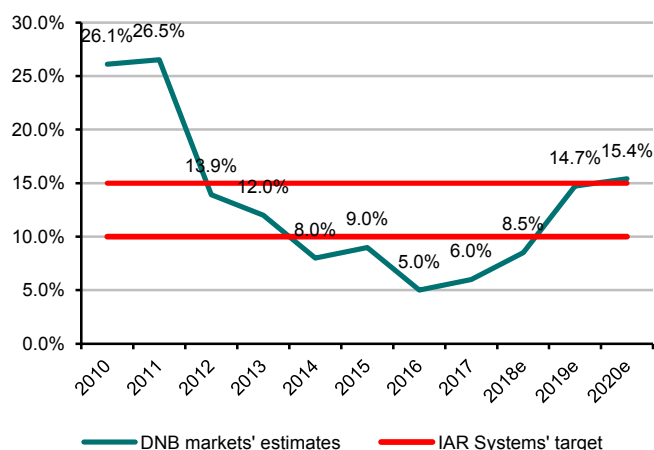
We estimate that revenues stemming from the royalty-based agreement with Renesas Electronics (2%) should contribute to an 1.8% organic sales CAGR for IAR Systems until 2020e. However, as the dynamics of this agreement have not been disclosed, we take a conservative approach for estimating the revenue impact.

We forecast a 2017–2020 EBIT CAGR of 20.6%, implying a margin gain from 31.1% in 2017 to 36.2% in 2020e, driven by: 1) solid organic volume growth; and 2) operational leverage averaging c70% (hurt in 2018 by the integration of Secure Thingz) in 2019–2020e 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

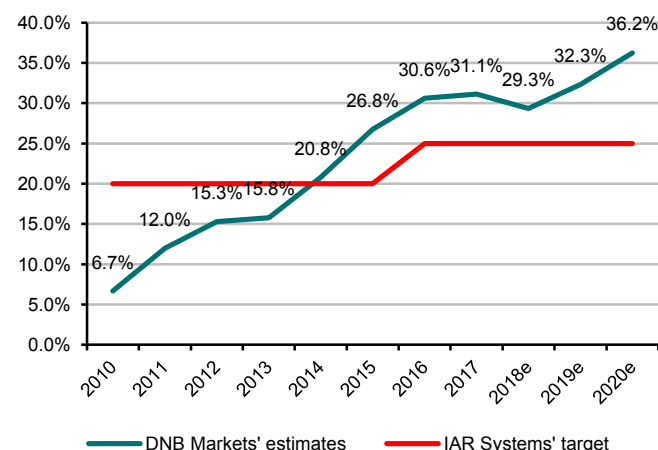
We expect Secure Thingz to contribute to group sales with a 5.1% organic growth CAGR in 2017–2020e

Figure 11: Organic sales growth (2010-2020e)



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

Figure 12: Adj. EBIT margin



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. Our estimates for organic growth remain below the target for 2018e, but on profitability and the dividend policy, we are above IAR Systems throughout our forecast period.

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Figure 13: IAR Systems' financial targets – reported and DNB Markets' estimates

	Reported fiscal years					IAR target	DNB Markets' estimates		
	2013	2014	2015	2016	2017		2018e	2019e	2020e
Organic growth	12.0%	8.0%	9.0%	5.0%	6.0%	10–15%	8.5%	14.7%	15.4%
EBIT margin	15.8%	20.8%	26.8%	30.6%	31.1%	>25%	28.5%	32.3%	36.2%
Pay-out ratio	88.0%	149.3%	99.7%	113.3%	79.0%	30-50%	81%	71%	60%

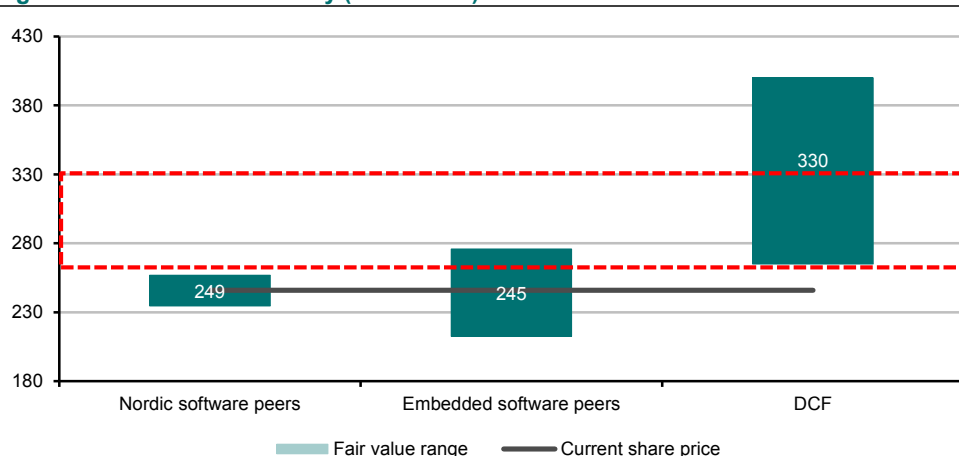
Source: DNB Markets (forecasts), company (historical data and targets)

We calculate a fair value of SEK270–330

Based on our group of Nordic software peers (6), embedded software peers (5), and our DCF model, we calculate a fair value of SEK270–330. We believe the market has been valuing IAR Systems relative to Nordic Software peers, whereas in our view embedded software peers better reflect its operating environment, business model, and growth prospects. On the current share price, our estimates suggest a 32.3x 2019e P/E, 22.5x EV/EBIT, and 7.5x EV/sales, while our fair value suggests share price potential of 4–27%.

Fair value of SEK270–330 suggests potential of 9% to 33%

Figure 14: Valuation summary (SEK/share)



Source: DNB Markets

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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 from 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 >98% of sales from markets outside Sweden but 58% of its cost base in SEK).

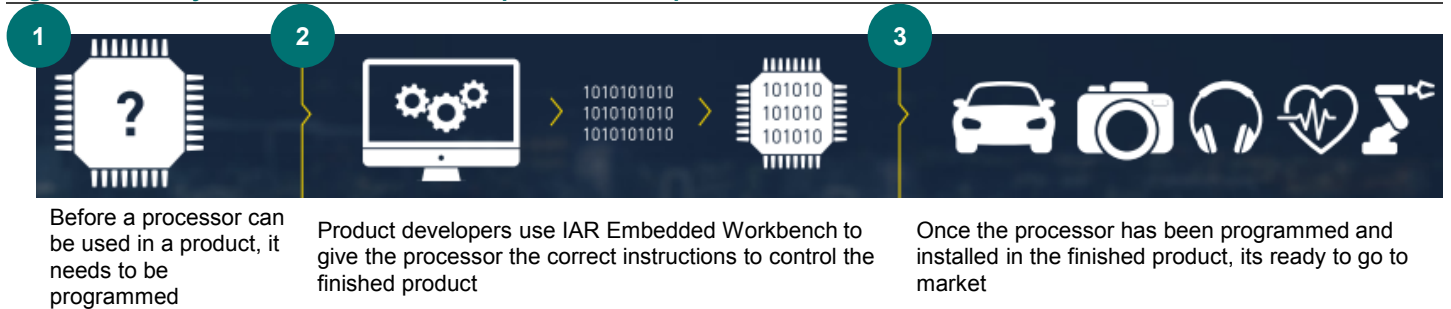
- **Failure to resurrect the growth story.** Having reported average local currency growth of 20% in 2010–2013, 9% in 2014–2015, and 6% in 2016–2017, we believe the key risk to the valuation is a failure to resurrect the organic growth story. While we have identified numerous market drivers that should 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.** With >98% of sales from markets outside Sweden, while the vast majority of the fixed cost base is denominated in SEK (we estimate ~58%), IAR Systems is fairly sensitive to fluctuations to the SEK. If the SEK were to strengthen by 10% against its most important currencies (USD, EUR, JPY) as well as the GBP and KRW in 2018, we estimate a ~10% FX headwind on sales and a ~30% headwind on 2018 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 the 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 of 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 to 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 the 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 tools 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 constantly retain 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 likely 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 program the chips.

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 so they can fulfil their function in the embedded system for developers of smart products. The customer base of 150,000+ programmers (users) is found mainly in end-markets underpinned by growing demand for digital technology and embedded systems, such as industrial automation, medical technology, telecommunication, 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 15: IAR Systems' role in customers' product development



Source: Company

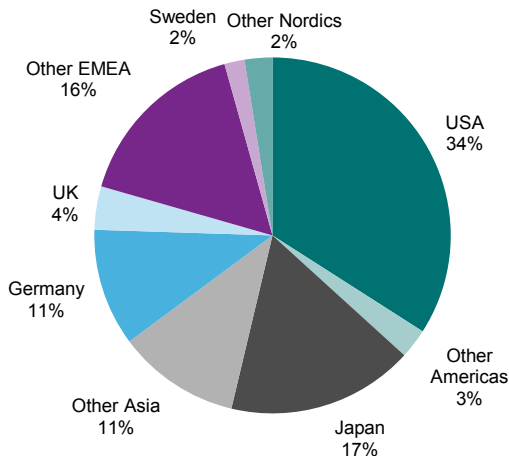
Headquartered in Uppsala (Sweden), the company holds a leading global market share of ~50% with 95%+ of sales stemming from markets outside the Nordics and a market presence in 50+ countries and headcount of 163. With a history of adapting to meet customer demand, IAR Systems' business model is primarily 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 (~30% recurring revenues). Also, to position itself more towards the Internet of Things (IoT), the company complemented its licence-based model in 2016 with an exclusive royalty-based agreement with world-leading process vendor Renesas Electronics.

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

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

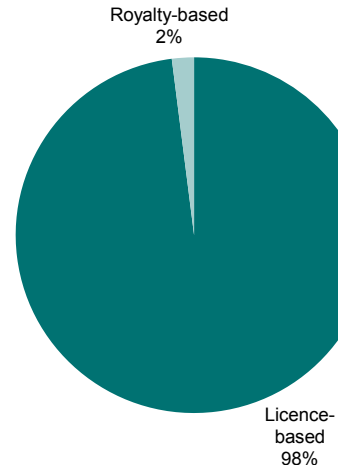
- **Licence-based revenue (98% of 2017 sales)** based entirely on the number of licence users (perpetual software keys) of the IAR Embedded Workbench sold when a developer programs a product. The licence cost is ~SEK30,000 (upfront) while the customer can add a support and update agreement for an annual cost of 20% of the licence price.
- **Royalty-based revenue (2%)** based on the number of microprocessors produced in Renesas Synergy series. Unlike the licence-based model, IAR Systems receives revenue throughout the entire production period.

Figure 16: Geographical sales split (2017)



Source: Company

Figure 17: Sales by business model (2017)



Source: Company

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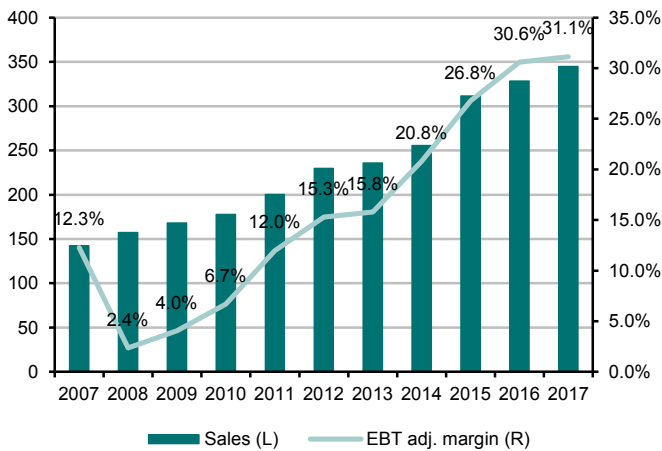
IAR Systems was acquired by IT conglomerate Nocom in 2005. However, by 2010 Nocom (known as Intoi by then) wanted to focus more on proprietary software and create a more specialised company, so it kept only IAR Systems and took on that name.

With 2017 net sales of SEK345m, IAR Systems is 2.7x larger than the company acquired in 2005. While generating a sales CAGR of 9.2% over the past 10 years, it was able to significantly boost its underlying profitability from an adj. EBIT margin of 12.3% in 2007 to 31.1% in 2017, 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 compose 46% of sales).

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

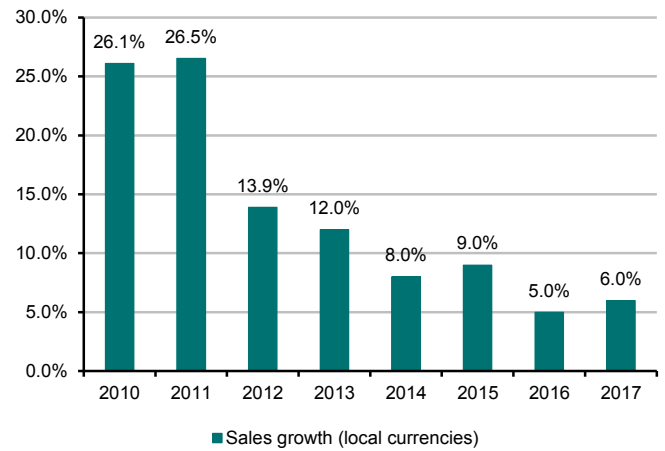
...with profitable growth, sales CAGR of 9% and adj. EBIT CAGR of 20% in the past 10 years

Figure 18: IAR Systems – sales (SEKm) and adj. EBIT margin



Source: Company

Figure 19: IAR Systems – sales growth local currencies



Source: Company

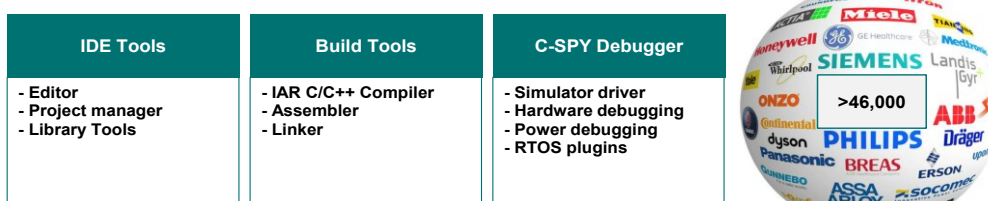
IAR Systems' key competitive advantage in our view is its flagship product, the IAR Embedded Workbench, which is a complete tool-chain for customers. Being independent, the software supports 12,000+ processors for embedded systems from the major process vendors with 8-, 16-, and 32-bit architecture, meaning customers can choose the programming environment and tools according to their own needs regardless of processor or project, which avoids locking customers in to 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) through its acquisition of Secure Thingz, as well as support for Amazon FreeRTOS (IoT Microcontroller Operating System). 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. The customer base is very broad as none of the 46,000+ customer organisations accounts for more than 3% of group sales.

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

Figure 20: IAR Embedded Workbench ® sold to >46,000 customer organisations



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

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Quarterly numbers

(SEKm)	Q1 2017	Q2 2017	Q3 2017	Q4 2017	Q1 2018	Q2 2018	Q3 2018e	Q4 2018e	Q1 2019e	Q2 2019e	Q3 2019e
Revenues	86	87	84	88	89	96	99	105	107	112	113
Cost of sales	-2	-2	-2	-3	-3	-2	-2	-3	-3	-2	-3
Gross profit	84	85	82	85	86	94	97	102	104	109	110
Operating expenses	-53	-54	-49	-53	-51	-64	-65	-63	-64	-66	-67
EBITDA	31	31	34	32	35	30	32	38	40	43	43
Depreciation	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
Amortisation	-4	-5	-5	-5	-5	-6	-6	-6	-6	-7	-8
EBIT	26	26	29	27	30	24	26	32	33	35	35
Net financial items	-1	0	0	0	0	-2	0	0	-1	-1	0
PBT	25	26	28	26	29	22	25	31	32	34	35
Taxes	-7	-5	-8	-7	-6	-6	-7	-8	-9	-9	-9
Net profit	19	21	20	20	23	16	19	23	24	25	26
Adjustments to net profit	0	0	0	0	0	-2	0	0	0	0	0
Net profit adj	19	21	20	20	23	14	19	23	24	25	26
Dividend paid	0	-63	0	0	0	-68	0	0	0	-75	0
Avg. number of shares (m)	13	13	13	13	14	14	14	14	14	14	14
<i>Per share data (SEK)</i>											
EPS	1.49	1.67	1.61	1.56	1.81	1.20	1.38	1.70	1.75	1.86	1.89
EPS adj	1.49	1.68	1.61	1.56	1.68	1.43	1.38	1.70	1.75	1.86	1.89
DPS ordinary	0.00	5.00	0.00	0.00	0.00	5.00	0.00	0.00	0.00	5.50	0.00
DPS	0.00	5.00	0.00	0.00	0.00	5.00	0.00	0.00	0.00	5.50	0.00
<i>Growth and margins (%)</i>											
Revenues, QOQ growth	1.6	0.5	-3.0	4.0	1.5	7.5	3.6	5.7	2.6	3.8	1.3
Revenues, YOY growth	7.3	6.1	3.8	3.1	2.9	10.1	17.7	19.6	20.9	16.7	14.0
EPS adj, YOY growth	-2.1	25.4	-6.9	-2.0	12.6	-15.1	-14.4	9.1	4.6	30.4	37.3
Gross margin	97.2	98.2	97.7	97.0	96.9	98.0	97.7	97.0	96.9	98.0	97.7
EBITDA adj margin	nm	nm	nm	nm	nm	nm	nm	nm	nm	nm	nm
Depreciation/revenues	-0.7	-0.7	-0.7	-0.7	-0.6	-0.6	-0.6	-0.6	-0.5	-0.6	-0.6
EBIT adj margin	30.3	29.7	34.0	30.6	33.2	28.1	25.9	30.4	30.7	31.6	31.3
Net profit margin	nm	nm	nm	nm	nm	nm	nm	nm	nm	nm	nm

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

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Adjustments to quarterly numbers

(SEKm)	Q1 2017	Q2 2017	Q3 2017	Q4 2017	Q1 2018	Q2 2018	Q3 2018e	Q4 2018e	Q1 2019e	Q2 2019e	Q3 2019e
EBITDA	31	31	34	32	35	30	32	38	40	43	43
EBIT	26	26	29	27	30	24	26	32	33	35	35
Other EBIT adjustments	0	0	0	0	0	-3	0	0	0	0	0
EBIT adj	26	26	29	27	30	27	26	32	33	35	35
Net profit	19	21	20	20	23	16	19	23	24	25	26
Other EBIT adjustments	0	0	0	0	0	-3	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	19	21	20	20	23	14	19	23	24	25	26

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

Quarterly numbers by segment and assumptions

(SEKm)	Q1 2017	Q2 2017	Q3 2017	Q4 2017	Q1 2018	Q2 2018	Q3 2018e	Q4 2018e	Q1 2019e	Q2 2019e	Q3 2019e
Assumptions											
Revenue org. % YOY	2.73	0.61	8.38	8.47	4.98	8.06	8.61	12.37	14.51	15.68	14.55
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	4.60	5.50	-4.56	-5.41	-2.08	2.07	9.07	7.23	6.38	1.02	-0.52

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

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Annual P&L

(SEKm)	2011	2012	2013	2014	2015	2016	2017	2018e	2019e	2020e
Revenues	200	230	236	256	312	328	345	388	451	520
Cost of sales	-19	-23	-15	-13	-10	-12	-9	-10	-12	-13
Gross profit	181	207	222	243	301	316	337	378	439	507
Operating expenses	-152	-165	-171	-179	-203	-203	-209	-243	-262	-280
EBITDA	29	42	51	64	98	113	127	135	177	227
Depreciation	-2	-2	-2	-2	-3	-3	-2	-2	-2	-3
Amortisation	-4	-4	-7	-8	-12	-14	-17	-22	-29	-36
EBIT	24	35	41	53	83	97	107	111	146	188
Net financial items	0	0	0	0	0	0	-2	-3	-2	-4
PBT	24	35	37	54	83	100	106	111	143	185
Taxes	3	-22	-12	-11	-20	-22	-26	-27	-38	-49
Effective tax rate (%)	-12	63	31	21	24	22	24	24	26	26
Net profit	27	13	26	42	63	78	80	84	105	136
Adjustments to net profit	0	0	3	0	0	-3	0	-2	0	0
Net profit adj	27	13	29	42	63	75	80	82	105	136
Dividend paid	0	-11	-23	0	-63	-88	-63	-68	-75	-82
Avg. number of shares	11	11	12	13	13	13	13	14	14	14
<i>Per share data (SEK)</i>										
EPS	2.44	1.14	2.10	3.34	5.02	6.18	6.33	6.09	7.75	10.01
EPS adj	2.44	1.14	2.10	3.34	5.02	6.18	6.33	6.18	7.75	10.01
DPS ordinary	0.00	0.98	1.85	0.00	5.00	7.00	5.00	5.00	5.50	6.00
DPS	0.00	0.98	1.85	0.00	5.00	7.00	5.00	5.00	5.50	6.00
<i>Growth and margins (%)</i>										
Revenue growth	12.6	14.8	2.7	8.3	21.9	5.4	5.1	12.6	16.1	15.4
EPS adj growth	126.9	-53.2	83.4	59.2	50.2	23.0	2.6	-2.5	25.5	29.1
Gross margin	90.5	89.9	93.9	95.0	96.7	96.3	97.5	97.4	97.4	97.4
EBITDA margin	14.7	18.2	21.4	24.9	31.5	34.5	36.9	34.8	39.2	43.7
EBITDA adj margin	nm	nm	nm	nm	nm	nm	nm	nm	nm	nm
Depreciation/revenues	-0.8	-1.0	-0.9	-0.9	-0.8	-0.8	-0.7	-0.6	-0.6	-0.5
EBIT margin	12.0	15.3	17.5	20.8	26.8	29.4	31.1	28.5	32.3	36.2
EBIT adj margin	12.0	15.3	15.8	20.8	26.8	30.6	31.1	29.3	32.3	36.2
PBT margin	12.0	15.3	15.8	21.0	26.7	30.5	30.6	28.6	31.8	35.6
Net profit margin	nm	nm	nm	nm	nm	nm	nm	nm	nm	nm

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

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Adjustments to annual P&L

(SEKm)	2011	2012	2013	2014	2015	2016	2017	2018e	2019e	2020e
EBITDA	29	42	51	64	98	113	127	135	177	227
EBIT	24	35	41	53	83	97	107	111	146	188
Other EBIT adjustments	0	0	4	0	0	-4	0	-3	0	0
EBIT adj	24	35	37	53	83	101	107	114	146	188
Net profit	27	13	26	42	63	78	80	84	105	136
Other EBIT adjustments	0	0	4	0	0	-4	0	-3	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	27	13	29	42	63	75	80	82	105	136
<i>Per share data (SEK)</i>										
EPS	2.44	1.14	2.10	3.34	5.02	6.18	6.33	6.09	7.75	10.01
Recommended adjustment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.00	0.00
EPS adj	2.44	1.14	2.10	3.34	5.02	6.18	6.33	6.18	7.75	10.01

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

Cash flow

(SEKm)	2011	2012	2013	2014	2015	2016	2017	2018e	2019e	2020e
Net profit	27	13	26	42	63	78	80	84	105	136
Depreciation and amortisation	5	7	9	10	15	17	20	25	31	39
Cash flow from operations (CFO)	35	38	41	70	99	114	124	99	127	165
Capital expenditure	-11	-22	-21	-32	-19	-19	-19	-36	-44	-55
Acquisitions/Investments	-15	0	0	0	0	0	0	0	0	0
Divestments	0	0	0	0	1	0	0	0	0	0
Cash flow from investing (CFI)	-26	-18	-19	-32	-18	-19	-38	-206	-44	-55
Free cash flow (FCF)	9	20	22	39	80	95	86	-107	83	110
Net change in debt	7	0	0	0	0	0	0	0	0	0
Dividends paid	0	-11	-23	0	-63	-88	-63	-68	-75	-82
Share issue (repurchase)	0	0	22	-53	0	0	0	175	0	0
Other	1	12	12	0	0	0	0	-1	0	0
Cash flow from financing (CFF)	8	1	12	-53	-64	-88	-63	106	-75	-82
Total cash flow (CFO+CFI+CFF)	17	21	33	-15	17	7	23	-1	8	29
<i>FCFF calculation</i>										
Free cash flow	9	20	22	39	80	95	86	-107	83	110
Less: tax shields/other	0	0	0	0	0	0	0	0	0	0
Less: acquisitions	15	0	0	0	0	0	0	0	0	0
Less: divestments	0	0	0	0	-1	0	0	0	0	0
Growth (%)										
CFO	152.2	10.1	6.3	72.7	40.4	15.7	8.5	-20.3	28.7	29.9
CFI	-105.6	30.1	-5.5	-66.0	42.3	-3.3	-98.9	-447.7	78.5	-23.7
FCF	641.7	127.0	6.9	78.7	108.3	18.5	-9.4	-224.2	177.3	33.2
CFF	348.4	-92.2	1866.7	-550.8	-19.5	-39.0	28.5	267.6	-170.7	-9.1
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)	2011	2012	2013	2014	2015	2016	2017	2018e	2019e	2020e
Assets	309	324	370	375	399	396	410	728	758	815
Inventories	5	4	3	4	5	6	5	7	7	9
Trade receivables	32	29	34	39	44	48	51	60	68	79
Other receivables	11	14	15	11	20	19	12	37	37	37
Current financial assets	7	3	1	0	0	0	0	0	0	0
Cash and cash equivalents	30	49	82	71	89	99	120	124	132	161
Current assets	85	98	135	124	158	172	187	227	244	284
Property, plant and equipment	6	6	6	8	7	6	6	9	15	22
Other intangible assets	139	152	164	186	192	197	194	482	489	498
Deferred tax assets	74	62	59	51	37	16	3	9	9	9
Non-current financial assets	6	5	5	6	5	5	20	2	2	2
Non-current assets	224	226	235	251	241	224	223	501	515	531
Total assets	309	324	370	375	399	396	410	728	758	815
Equity and liabilities	309	324	370	375	399	396	410	728	758	815
Total equity	241	254	295	289	291	280	290	549	580	634
Trade payables	11	6	6	5	5	5	6	9	8	10
Other payables and accruals	52	53	54	65	84	92	96	141	141	141
Short-term debt	1	1	1	1	1	1	1	1	1	1
Total current liabilities	63	61	61	71	90	99	102	151	151	152
Long-term debt	2	1	1	2	1	2	2	2	2	2
Deferred tax liabilities	4	9	13	15	17	15	14	25	25	25
Other non-current liabilities	0	0	0	0	1	1	2	2	2	2
Total non-current liabilities	5	10	14	16	18	18	17	28	28	28
Total liabilities	68	70	75	87	108	116	120	179	179	180
Total equity and liabilities	309	324	370	375	399	396	410	728	758	815
<i>Key metrics</i>										
Net interest bearing debt	-28	-47	-79	-68	-88	-97	-117	-121	-129	-158

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

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Valuation ratios

(SEKm)	2011	2012	2013	2014	2015	2016	2017	2018e	2019e	2020e
<i>Enterprise value</i>										
Share price (SEK)			39.77	74.75	150.00	206.00	189.00	248.00	248.00	248.00
Net interest bearing debt	-28	-47	-79	-68	-88	-97	-117	-121	-129	-158
Adjustments to NIBD	0	0	0	0	0	0	0	0	0	0
Net interest bearing debt adj	-28	-47	-79	-68	-88	-97	-117	-121	-129	-158
<i>Valuation</i>										
EPS	2.44	1.14	2.10	3.34	5.02	6.18	6.33	6.09	7.75	10.01
EPS adj	2.44	1.14	2.10	3.34	5.02	6.18	6.33	6.18	7.75	10.01
DPS ordinary	0.00	0.98	1.85	0.00	5.00	7.00	5.00	5.00	5.50	6.00
DPS	0.00	0.98	1.85	0.00	5.00	7.00	5.00	5.00	5.50	6.00
P/E			18.9	22.4	29.9	33.4	29.8	40.7	32.0	24.8
P/E adj			18.9	22.4	29.9	33.4	29.8	40.1	32.0	24.8
P/B			1.66	3.27	6.51	9.31	8.22	6.14	5.82	5.32
Average ROE	6.4%	5.3%	9.4%	14.5%	21.9%	27.3%	28.1%	20.0%	18.7%	22.4%
Dividend yield			4.6%	0.0%	3.3%	3.4%	2.6%	2.0%	2.2%	2.4%

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

Key accounting ratios

	2011	2012	2013	2014	2015	2016	2017	2018e	2019e	2020e
<i>Profitability (%)</i>										
ROA	5.1	4.1	7.5	11.3	16.4	19.6	19.9	14.8	14.2	17.3
ROCE	5.2	14.0	13.4	18.1	28.5	34.9	36.7	26.6	25.7	30.9
ROCE after tax	3.8	10.4	9.9	13.4	21.1	25.8	27.2	19.7	19.0	22.9
<i>Return on invested capital (%)</i>										
Net PPE/revenues	2.9	2.7	2.6	3.1	2.1	1.9	1.8	2.4	3.3	4.3
Working capital/revenues	10.9	16.4	31.2	20.9	22.0	22.4	24.6	19.5	20.7	25.4
<i>Cash flow ratios (%)</i>										
FCF/revenues	4.4	8.8	9.1	15.1	25.8	29.0	25.0	-27.6	18.4	21.2
CFO/revenues	17.4	16.6	17.2	27.5	31.7	34.8	35.9	25.4	28.2	31.7
CFO/capex	316.4	171.0	192.9	217.6	508.8	614.0	652.1	274.8	287.4	301.8
CFO/current liabilities	55.4	63.3	66.8	99.4	110.2	115.8	121.1	65.3	84.5	108.4
Cash conversion ratio	33.0	155.4	83.4	91.5	126.8	122.2	107.9	-127.5	78.6	81.1
Capex/revenues	5.5	9.7	8.9	12.6	6.2	5.7	5.5	9.3	9.8	10.5
Capex/depreciation	647.1	973.9	959.1	1404.3	776.0	744.0	791.7	1501.2	1777.5	2153.0
OpFCF margin	-5.5	-9.7	-8.9	-12.6	-6.2	-5.7	-5.5	-9.3	-9.8	-10.5
Total payout ratio	0.0	85.4	88.0	0.0	99.7	113.3	79.0	82.1	71.0	60.0
<i>Leverage and solvency (x)</i>										
Net debt/EBITDA	-0.94	-1.12	-1.57	-1.08	-0.89	-0.85	-0.92	-0.89	-0.73	-0.69
Total debt/total capital (BV)	0.01	0.01	0.01	0.01	0.00	0.01	0.01	0.00	0.00	0.00
<i>Cash conversion cycle</i>										
Inventory turnover days	88.4	61.1	83.1	104.7	180.7	167.5	223.3	244.2	234.3	230.4
Receivables turnover days	79.2	67.7	75.3	70.9	74.5	74.7	66.2	90.8	84.7	80.8
Credit period	205.6	95.6	143.5	147.1	170.1	158.6	244.8	315.7	250.2	265.9
Cash conversion cycle	-38.0	33.3	14.8	28.5	85.1	83.7	44.8	19.2	68.8	45.3

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

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Important Information

Company: IAR Systems
 Coverage by Analyst: Joachim Gunell
 Date: 21/10/2018

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