## 4847 INTELLIGENT WAVE INC.

Sponsored Research February 12, 2021



## 1H results topped guidance despite COVID-19

Posted record for 2Q sales and 2Q OPM achieved 9.2%

#### **SUMMARY**

- The company announced 1H results at 15:30 after the close on 2/3, and held a virtual results briefing on 2/5, hosted by newly appointed CEO Kunimitsu Sato and GM of the Business Planning Dept. Yoshihiro Fujisawa. 1H FY6/21 results are summarized in the table below. Following the roughly 5% decline in 1Q sales and profits, 1H actual results topped guidance, with both sales and OP beating initial guidance by 5%+. 2Q results were impressive, with net sales of ¥2,949mn (+15.7% YoY), posting a record for the 2Q exceeding the last 5 years. OP of ¥271mn (+19.7%) achieved OPM of 9.2%, confirming that efforts aimed at structural improvement of profitability are steadily beginning to appear in results.
- 1Q results had been affected by delay in a system development project, which was caught up in the 2Q. While sales declined for its top customer and parent company DNP, that was as expected and is factored into initial guidance. More importantly, this was offset by a FEP system upgrade project including profitable replacement hardware sales for a credit card issuer. Focus initiative cloud service sales rose +20% YoY as a new customer came on line.
- Over the last 3 months, relative to the +13.1% rally in TOPIX, IWI's share price actually declined -0.7%, continuing underperformance from the previous 3 months after strong 4Q results in August and ahead of weak 1Q results announced in early November. IWI's P/E is now trading at a 19.8% discount to its historical average. Based on the company's visibility and expectations for gains in sales and profits to continue in 3Q results to be announced in May, we believe a good case can be made for a short-term rebound trade going into 3Q results. The long-term driver of the share price is structural improvement of profitability, as cloud services business gains critical mass and turns profitable, and the company successfully addresses and eliminates losses in security business.

#### IWI 1H FY6/21 Financial Results Summary

| JPY mn, %        | 1Q 6/21 | 2Q 6/21 | 1H 6/21  | 1H 6/21  | CHG AMT     | CHG PCT      |
|------------------|---------|---------|----------|----------|-------------|--------------|
|                  | act     | act     | act      | CE       | vs 1H CE    | vs 1H CE     |
| Net sales        | 2,299   | 2,949   | 5,248    | 5,000    | 248         | 5.0          |
| Operating profit | 134     | 271     | 406      | 380      | 26          | 6.7          |
| Ordinary profit  | 129     | 293     | 421      | 400      | 21          | 5.3          |
| Net profit       | 84      | 202     | 286      | 280      | 6           | 2.0          |
| YoY              | 1Q 6/21 | 2Q 6/21 | 1H 6/21a | 1H 6/21e |             |              |
| Net sales        | (4.9)   | 15.7    | 5.7      | 0.7      | _           | _            |
| Operating profit | (4.8)   | 19.2    | 10.0     | 3.0      | _           | _            |
| Ordinary profit  | (8.8)   | 33.5    | 17.0     | 11.1     | _           | _            |
| Net profit       | (8.3)   | 38.4    | 20.5     | 18.1     | <del></del> | <del>-</del> |

Source: compiled by Sessa Partners from TANSHIN financial statements.

## 2Q Follow-up



#### **Focus Points:**

Systems integrator boasting an overwhelming share with credit card companies in FEP systems development for nonstop secure datacenter connection packages.

| Key Indicators      |        |
|---------------------|--------|
| Share price (2/9)   | 711    |
| YH (20/8/6)         | 918    |
| YL (20/3/23)        | 398    |
| 10YH (18/10/24)     | 1,180  |
| 10YL (12/11/9)      | 163.8  |
| Shrs out. (mn shrs) | 26.340 |
| Mkt cap (¥ bn)      | 18.73  |
| EV (¥ bn)           | 14.99  |
| Shr equity ratio    | 67.8%  |
| 21.6 P/E (CE)       | 22.8x  |
| 21.6 EV/EBITDA (CE) | 8.0x   |
| 20.6 H1 P/B (act)   | 2.64x  |
| 20.6 ROE (act)      | 11.4%  |
| 21.6 DY (CE)        | 1.41%  |

#### 1Y price chart (weekly)



Source: SPEEDA price database

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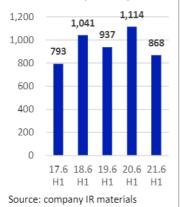
#### **IWI Sales by Product/Service Category**

| JPY mn, %                                     | Flow/ | 21.6 Q1 | CHG   | 21.6 Q2 | CHG  | 21.6 H1 | CHG   | 21.6 H2 | CHG   | FY6/21 | CHG   |
|---|-------|---------|-------|---------|------|---------|-------|---------|-------|--------|-------|
|   | stock | act     | AMT   | act     | AMT  | act     | AMT   | CE      | AMT   | CE     | AMT   |
| Net sales                                     |       | 2,298   | (119) | 2,949   | 399  | 5,247   | 280   | 5,753   | (200) | 11,000 | 80    |
| System software development                   | flow  | 1,113   | (138) | 1,324   | 1    | 2,437   | (137) | 2,925   | (292) | 5,362  | (429) |
| Software maintenance                          | stock | 315     | 14    | 332     | 27   | 647     | 41    | 637     | (3)   | 1,284  | 38    |
| <ul> <li>In-house package software</li> </ul> | flow  | 144     | 47    | 65      | (17) | 209     | 30    | 188     | 123   | 397    | 153   |
| Cloud service                                 | stock | 224     | 46    | 246     | 34   | 470     | 80    | 470     | 32    | 940    | 112   |
| Hardware                                      | flow  | 208     | (145) | 664     | 337  | 872     | 192   | 622     | (224) | 1,494  | (32)  |
| Third party package software                  | flow  | 110     | 49    | 130     | 96   | 240     | 145   | 183     | 58    | 423    | 203   |
| Security products                             | flow  | 181     | 8     | 188     | (79) | 369     | (71)  | 731     | 108   | 1,100  | 37    |
| YoY   |       | 21.6 Q1 |       | 21.6 Q2 |      | 21.6 H1 |       | 21.6 H2 |       | FY6/21 |       |
| Net sales                                     |       | (4.9)   | _     | 15.6    | _    | 5.6     | _     | (3.4)   | _     | 0.7    | _     |
| System software development                   | flow  | (11.0)  | _     | 0.1     | _    | (5.3)   | _     | (9.1)   | _     | (7.4)  | _     |
| Software maintenance                          | stock | 4.7     | _     | 8.9     | _    | 6.8     | _     | (0.5)   | _     | 3.0    | _     |
| <ul> <li>In-house package software</li> </ul> | flow  | 48.5    | _     | (20.7)  | _    | 16.8    | _     | 189.2   | _     | 62.7   | _     |
| Cloud service                                 | stock | 25.8    | _     | 16.0    | _    | 20.5    | _     | 7.3     | _     | 13.5   | _     |
| Hardware                                      | flow  | (41.1)  | _     | 103.1   | _    | 28.2    | _     | (26.5)  | _     | (2.1)  | _     |
| Third party package software                  | flow  | 80.3    | _     | 282.4   | _    | 152.6   | _     | 46.4    | _     | 92.3   | _     |
| Security products                             | flow  | 4.6     | _     | (29.6)  | _    | (16.1)  | _     | 17.3    | _     | 3.5    | _     |

One thing worth flagging is that 2Q orders declined -15% YoY. However, the company noted that strong 1Q orders included roughly ¥700mn for hardware and ¥200mn for cloud service. Despite the challenging macro environment due to COVID-19, weakness in one major client is being made up by others. Ultimately, backlogs remain at a high level, and high-margin system development backlogs managed to continue rising in the 2Q, so the company has visibility on sales and profit growth continuing in the 3Q.

## DNP

#### DNP 1H Sales (JPY mn)

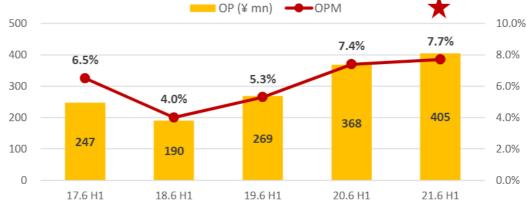


#### **IWI 1H Sales by Top 3 Customers**

| JPY mn                | 20.6 H1 | 21.6 H1 | CHG   | Main projects   |
|-----------------------|---------|---------|-------|---|
| 1) DNP                | 1,114   | 868     | (246) | TSP system (smartphone payment), system operations (24/365), payment platform |
| 2) Credit card issuer | 236     | 662     | 426   | Development and hardware sales for FEP replacement                            |
| 3) System dev. co.    | 124     | 551     | 427   | FEP system for telecom co. credit card business, fraud detection              |

Source: compiled by Sessa Partners from company IR materials

#### IWI 5-Year Trend of 1H Operating Profit and OPM





#### IWI Quarterly Trend of Orders, Sales and Backlogs

| JPY mn, % | Orders | YoY    | Sales          | YoY    | Backlogs | QoQ    |
|-----------|--------|--------|----------------|--------|----------|--------|
| 19.6 Q1   | 2,956  | 6.7    | 2,337          | 0.6    | 5,053    | 14.0   |
| Q2        | 3,014  | 28.5   | 2,702          | 14.0   | 5,366    | 6.2    |
| Q3        | 2,978  | 21.6   | 2 <i>,</i> 650 | (15.5) | 5,695    | 6.1    |
| Q4        | 2,394  | (8.1)  | 2,754          | (0.8)  | 5,335    | (6.3)  |
| 20.6 Q1   | 2,402  | (18.7) | 2,417          | 3.4    | 5,319    | (0.3)  |
| Q2        | 3,016  | 0.1    | 2 <i>,</i> 550 | (5.6)  | 5,786    | 8.8    |
| Q3        | 2,254  | (24.3) | 2,838          | 7.1    | 5,202    | (10.1) |
| Q4        | 3,230  | 34.9   | 3,116          | 13.1   | 5,317    | 2.2    |
| 21.6 Q1   | 3,056  | 27.2   | 2,299          | (4.9)  | 6,075    | 14.3   |
| Q2        | 2,562  | (15.1) | 2,948          | 15.6   | 5,688    | (6.4)  |

Source: compiled by Sessa Partners from company IR materials



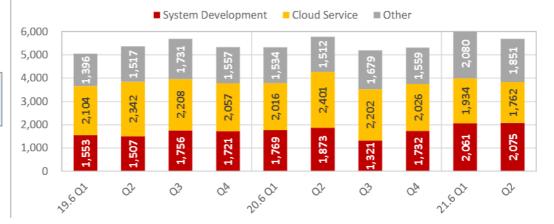
2Q posted record net sales for the 2Q exceeding the last 5 years helped by the systems development project delayed from the 1Q along with strong replacement hardware sales



#### **IWI Quarterly Trend of Backlogs by Category**

| •         |        | υ,     | 0 ,     |       |       |        |
|-----------|--------|--------|---------|-------|-------|--------|
| JPY mn, % | System | QoQ    | Cloud   | QoQ   | Other | QoQ    |
|           | Devpt. |        | Service |       |       |        |
| 19.6 Q1   | 1,553  | 0.3    | 2,104   | 30.3  | 1,396 | 9.8    |
| Q2        | 1,507  | (3.0)  | 2,342   | 11.3  | 1,517 | 8.7    |
| Q3        | 1,756  | 16.5   | 2,208   | (5.7) | 1,731 | 14.1   |
| Q4        | 1,721  | (2.0)  | 2,057   | (6.8) | 1,557 | (10.1) |
| 20.6 Q1   | 1,769  | 2.8    | 2,016   | (2.0) | 1,534 | (1.5)  |
| Q2        | 1,873  | 5.9    | 2,401   | 19.1  | 1,512 | (1.4)  |
| Q3        | 1,321  | (29.5) | 2,202   | (8.3) | 1,679 | 11.0   |
| Q4        | 1,732  | 31.1   | 2,026   | (8.0) | 1,559 | (7.1)  |
| 21.6 Q1   | 2,061  | 19.0   | 1,934   | (4.5) | 2,080 | 33.4   |
| Q2        | 2,075  | 0.7    | 1,762   | (8.9) | 1,851 | (11.0) |
|           |        |        |         |       |       |        |

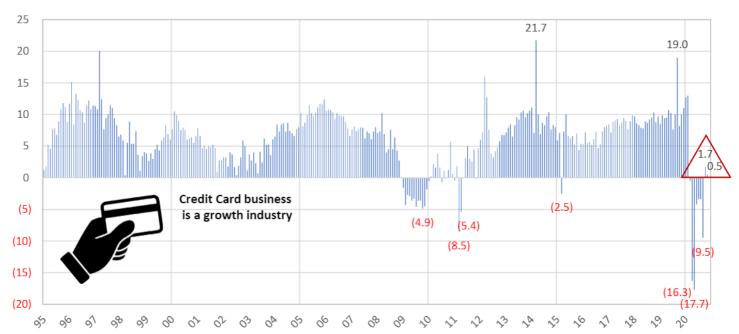
Source: compiled by Sessa Partners from company IR materials



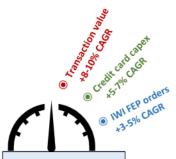
The trend for high-margin system development backlogs is still rising sequentially



#### METI Current Survey of Selected Service Industries: YoY Monthly Trend of Total Credit Card Transactions



Source: Ministry of Economy, Trade and Industry monthly data from Jan-1995 - Nov-2020. Note: average monthly growth over the period is +6.2% YoY.



Growth Outlook: The primary driver of FEP orders is credit card capex

Source: IR handout material Note: growth ests added by Sessa Partners



FEP (front-end processing):

Credit card on-premise infrastructure for authorization center connection packages

IWI's parent company is Dai Nippon Printing (50.6% stake), which is also the largest customer, accounting for annual sales of roughly ¥2bn out of ¥10-11bn total sales. One concern for IWI by investors is the difficult earnings environment for DNP, which has a high gearing to general economic activity, and current earnings are struggling.

IWI belongs in the sector of systems integrators (SI) focused on financial systems. IWI's specialty is in developing FEP (front-end processor) systems for credit card companies, specifically on-premise infrastructure in the form of authorization center connection packages (system software development + hardware). Sessa Partners estimates IWI has a 70-80% overwhelming share in this market. Credit card companies have been enjoying robust structural growth not only from the ongoing shift to e-commerce, but also from government policy promoting raising the ratio of cashless payments.

The graphic on the left highlights the point that the primary driver of FEP orders is credit card company capex. The graph above shows the YoY monthly trend of total credit card transactions. For the last 25 years and 11 months of 2020, growth averaged +6-7% over the entire period, +8-10% over the last 5 years. Until this year, there were only 3 cases of declines: the financial crisis in 2009, March and April 2011 after the earthquake and tsunami, and Mar-2015 in reactionary decline to frontloading demand ahead of the consumption tax hike in Apr-2014. In stark contrast, April and May this year under stay-at-home orders posted high double-digit declines, and they continued -3% to -4% declines from June through August. The -9.5% for Sep-2020 was a reactionary decline to frontloading demand ahead of the consumption tax hike in Oct-2019. While the shift to teleworking and spending more time at home gave a boost to e-commerce, use of restaurants and bars dropped sharply, and occupancy at hotels cratered in the wake of travel restrictions. Another concern for IWI is that credit card companies may seek to push out ongoing capex projects given the tough environment, although no signs of that have appeared yet, according to IWI.

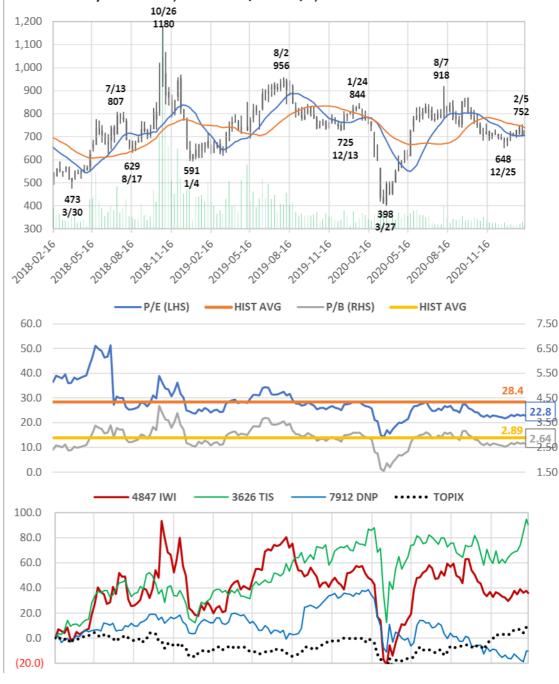




#### Share price trend, valuations and relative performance

- 1) Over the last 3 months, relative to the +13.1% rally by TOPIX and +16.8% gain by competitor 3626 TIS, 4847 IWI actually declined -0.7%, even underperforming parent 7912 DNP (+0.3%), which has stopped falling. IWI also underperformed in the previous 3 months following strong 4Q results in August, and leading up to 1Q declines in both sales and profits announced in November.
- 2) IWI's valuations are now trading on discounts, with a P/E of 22.8x trading 19.8% below its 3-year avg., and a 1H P/B of 2.64x trading 8.5% below its 3-year avg.
- 3) Based on the company's visibility and expectations for gains in sales and profits to continue in 3Q results to be announced in May, we believe a good case can be made for a short-term rebound trade going into 3Q results.

#### 3-Year Weekly Share Price, Historical P/E and P/B, and Relative Performance

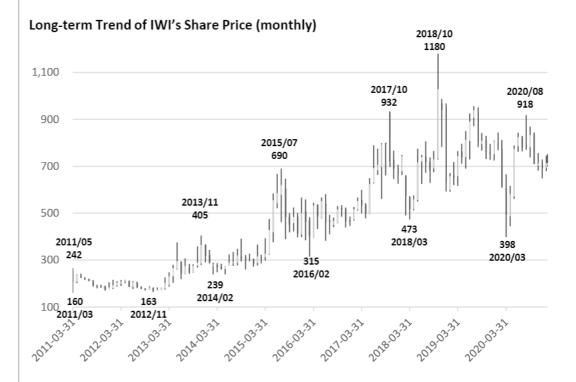






## Structural profitability improvement is the key share price driver

- One of the unavoidable characteristics of system integrator business is a certain amount of order volatility due to macroeconomic impacts on client capex. A focus initiative is switching to a recurring (stock) revenue model for cloud services. As startup costs disappear and revenue gains critical mass, it is set to turn profitable.
- 2) Eliminating losses associated with security business will be another key driver. Low margins have been partly a function of heavy upfront costs in educating clients. Management is exploring potential tie-up partners, as well as managed services.



#### Long-term Trend of IWI Operating Profit (JPY mn)



Source: compiled by Sessa Partners from SPEEDA earnings database. Note: MTP forecasts from company IR materials





#### **Cloud Services**

According to the Japanese Bankers Association (JBA), as of December 2019, there are 64 regional banks, and 39 type-2 regional banks, for a total of 103. IWI identified a major business opportunity here, targeting regional banks considering to become credit card issuers. IWI's IOASIS cloud service to support acquiring merchants is the only one of its kind available.

Given the smaller scale relative to the megabanks, the initial investment burden for installing their own FEP switching system is a potential barrier. By porting IWI's proprietary Net+1 and AcePlus into cloud service solutions, the benefit to the regional bank client is an affordable scheme to lease the service, fixing the running costs including maintenance. In return, IWI gets a recurring revenue stream that is scalable.

#### ■ Net sales ■ GP JPY mn 2,000 1,600 1,500 1.300 940 1,000 828 637 386 500 179 (24)(75)(105)(166)

FY6/20

FY6/21

CE

FY6/22

MTP

FY6/23

MTP

Focus initiative: shifting to a recurring (stock) revenue model based on cloud services

Source: compiled by Sessa Partners from IR results briefing materials

(296)

FY6/18

(500)

FY6/17

# Cloud Functionality

Service

IOASIS: Merchant acquiring

IFINDS: Fraud detection

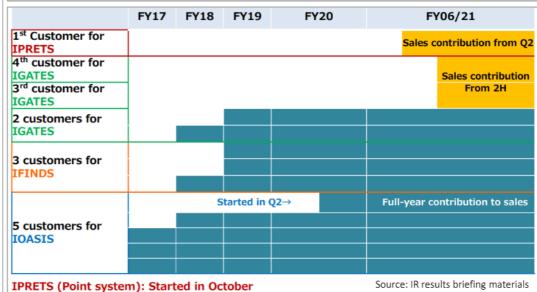
IGATES: Switching, gateway

IPRETS: Point rebate system

#### FY6/21: Upfront investment results in higher costs, expecting 3 new clients

FY6/19

|                     | FY06/17<br>actual | FY06/18<br>actual | FY06/19<br>actual | FY06/20<br>actual | FY06/21<br>forecast |
|---------------------|-------------------|-------------------|-------------------|-------------------|---------------------|
| Net sales           | 179               | 386               | 637               | 828               | 940                 |
| Gross profit (loss) | (166)             | (296)             | (105)             | (24)              | (75)                |
| ■IPRETS             | 0                 | 0                 | 0                 | 0                 | 1                   |
| Services ■IGATES    | 0                 | 1                 | 2                 | 2                 | <u>4</u>            |
| customers ■ IFINDS  | 0                 | 1                 | 3                 | 3                 | 3                   |
| ■IOASIS             | 3                 | 4                 | 4                 | 5                 | 5                   |







### INTELLIGENT WAVE INC. Earnings Seasonality Analysis

| J-GAAP  | JPY mn, %    | 1Q    | 2Q     | 3Q    | 4Q    | 1Q    | 2Q       | 3Q    | 4Q    | 1H    | 2H      | FY          | 1H    | 2H         | FY     |
|---------|--------------|-------|--------|-------|-------|-------|----------|-------|-------|-------|---------|-------------|-------|------------|--------|
|         |              |       | Earnir | ngs   |       |       | Progress | ratio |       | E     | arnings |             | Pro   | gress rati | 0      |
| FY6/16  | Net sales    | 1,331 | 1,665  | 1,891 | 2,320 | 18.5% | 23.1%    | 26.2% | 32.2% | 2,996 | 4,211   | 7,207       | 41.6% | 58.4%      | 100.0% |
| Consol  | Oper. profit | 34    | 169    | 227   | 284   | 4.8%  | 23.7%    | 31.8% | 39.8% | 203   | 511     | 714         | 28.4% | 71.6%      | 100.0% |
|         | Ord. profit  | 41    | 175    | 230   | 285   | 5.6%  | 23.9%    | 31.5% | 39.0% | 216   | 515     | 731         | 29.5% | 70.5%      | 100.0% |
|         | Profit ATOP  | 34    | 112    | 141   | 192   | 7.1%  | 23.4%    | 29.4% | 40.1% | 146   | 333     | <b>47</b> 9 | 30.5% | 69.5%      | 100.0% |
| FY6/17  | Net sales    | 1,654 | 2,139  | 2,264 | 2,413 | 19.5% | 25.3%    | 26.7% | 28.5% | 3,793 | 4,677   | 8,470       | 44.8% | 55.2%      | 100.0% |
| Non-Con | Oper. profit | 38    | 210    | 275   | 180   | 5.4%  | 29.9%    | 39.1% | 25.6% | 248   | 455     | 703         | 35.3% | 64.7%      | 100.0% |
|         | Ord. profit  | 37    | 238    | 289   | 202   | 4.8%  | 31.1%    | 37.7% | 26.4% | 275   | 491     | 766         | 35.9% | 64.1%      | 100.0% |
|         | Net profit   | 20    | 172    | 214   | 141   | 3.7%  | 31.4%    | 39.1% | 25.8% | 192   | 355     | 547         | 35.1% | 64.9%      | 100.0% |
| FY6/18  | Net sales    | 2,322 | 2,371  | 3,136 | 2,775 | 21.9% | 22.4%    | 29.6% | 26.2% | 4,693 | 5,911   | 10,604      | 44.3% | 55.7%      | 100.0% |
| Non-Con | Oper. profit | 129   | 61     | 177   | 181   | 23.5% | 11.1%    | 32.3% | 33.0% | 190   | 358     | 548         | 34.7% | 65.3%      | 100.0% |
|         | Ord. profit  | 128   | 69     | 176   | 201   | 22.3% | 12.0%    | 30.7% | 35.0% | 197   | 377     | 574         | 34.3% | 65.7%      | 100.0% |
|         | Net profit   | 83    | 46     | 109   | 139   | 22.0% | 12.2%    | 28.9% | 36.9% | 129   | 248     | 377         | 34.2% | 65.8%      | 100.0% |
| FY6/19  | Net sales    | 2,337 | 2,702  | 2,650 | 2,754 | 22.4% | 25.9%    | 25.4% | 26.4% | 5,039 | 5,404   | 10,443      | 48.3% | 51.7%      | 100.0% |
| Non-Con | Oper. profit | 71    | 198    | 407   | 246   | 7.7%  | 21.5%    | 44.1% | 26.7% | 269   | 653     | 922         | 29.2% | 70.8%      | 100.0% |
|         | Ord. profit  | 79    | 203    | 406   | 266   | 8.3%  | 21.3%    | 42.6% | 27.9% | 282   | 672     | 954         | 29.6% | 70.4%      | 100.0% |
|         | Net profit   | 48    | 157    | 262   | 217   | 7.0%  | 23.0%    | 38.3% | 31.7% | 205   | 479     | 684         | 30.0% | 70.0%      | 100.0% |
| FY6/20  | Net sales    | 2,417 | 2,550  | 2,838 | 3,116 | 22.1% | 23.3%    | 26.0% | 28.5% | 4,967 | 5,954   | 10,921      | 45.5% | 54.5%      | 100.0% |
| Non-Con | Oper. profit | 141   | 228    | 217   | 450   | 13.6% | 22.0%    | 20.9% | 43.4% | 369   | 667     | 1,036       | 35.6% | 64.4%      | 100.0% |
|         | Ord. profit  | 141   | 219    | 241   | 474   | 13.1% | 20.4%    | 22.4% | 44.1% | 360   | 715     | 1,075       | 33.5% | 66.5%      | 100.0% |
|         | Net profit   | 91    | 146    | 161   | 364   | 11.9% | 19.2%    | 21.1% | 47.8% | 237   | 525     | 762         | 31.1% | 68.9%      | 100.0% |
| 5Y AVG  | Net sales    | 2,012 | 2,285  | 2,556 | 2,676 | 21.1% | 24.0%    | 26.8% | 28.1% | 4,298 | 5,231   | 9,529       | 45.1% | 54.9%      | 100.0% |
|         | Oper. profit | 83    | 173    | 261   | 268   | 10.5% | 22.1%    | 33.2% | 34.2% | 256   | 529     | 785         | 32.6% | 67.4%      | 100.0% |
|         | Ord. profit  | 85    | 181    | 268   | 286   | 10.4% | 22.0%    | 32.7% | 34.8% | 266   | 554     | 820         | 32.4% | 67.6%      | 100.0% |
|         | Net profit   | 55    | 127    | 177   | 211   | 9.7%  | 22.2%    | 31.1% | 37.0% | 182   | 388     | 570         | 31.9% | 68.1%      | 100.0% |
|         |              |       |        |       |       |       |          |       |       |       | CE      | CE          |       | CE         | CE     |
| FY6/21  | Net sales    | 2,299 | 2,949  | _     | _     | 20.9% | 26.8%    | _     | _     | 5,248 | 5,752   | 11,000      | 47.7% | 52.3%      | 100.0% |
| Non-Con | Oper. profit | 134   | 272    | _     | _     | 11.7% | 23.7%    | _     |       | 406   | 744     | 1,150       | 35.3% | 64.7%      | 100.0% |
|         | Ord. profit  | 129   | 292    | _     | -     | 10.8% | 24.5%    | _     | -     | 421   | 769     | 1,190       | 35.4% | 64.6%      | 100.0% |
|         | Net profit   | 84    | 202    | _     | -     | 10.2% | 24.6%    | _     | -     | 286   | 534     | 820         | 34.9% | 65.1%      | 100.0% |

#### 5-Year Basic Earnings Analysis to Gauge Current Performance

#### → Seasonality (progress ratios above)

- -While 1Q was in line with the 5Y AVG, 2Q was nicely ahead for sales and profits
- —The strong 1H reflects solid 4Q and 1Q orders

#### ◆ YoY Trend (top of following page)

- -1Q sales and profits declined in part due to delays in a development project
- —Strong growth in the 2Q raises potential to achieve bullish 2H guidance

#### ♦ Margins (bottom of following page)

- -Record sales for the 2Q were driven by strong hardware replacement
- —Profitable hardware margins boosted 2Q OPM to 9.2%

#### 1H 6/21 conclusion and takeaways:

- —According to the company, it has good visibility on the 3Q, and expects gains in both sales and profits to continue (3Q results TBA in May).
- —However, we believe it is too early to have expectations for a 2H overshoot, given implied 2H guidance has a high hurdle targeting OPM of 12.9%, and we need to monitor the outlook for 4Q sales (still low visibility).





## **INTELLIGENT WAVE INC. Earnings YoY Trend Analysis**

| J-GAAP  | JPY mn, %    | 1Q    | 2Q     | 3Q    | 4Q    | 1Q     | 2Q     | 3Q     | 4Q     | 1H    | 2H      | FY     | 1H     | 2H       | FY     |
|---------|--------------|-------|--------|-------|-------|--------|--------|--------|--------|-------|---------|--------|--------|----------|--------|
|         |              |       | Earnir | ngs   |       |        | YoY tr | end    |        |       | arnings |        | Y      | oY trend |        |
| FY6/16  | Net sales    | 1,331 | 1,665  | 1,891 | 2,320 | (6.7)  | 17.3   | 29.8   | 24.9   | 2,996 | 4,211   | 7,207  | 5.3    | 27.0     | 17.0   |
| Consol  | Oper. profit | 34    | 169    | 227   | 284   | (64.2) | 89.9   | 129.3  | 41.3   | 203   | 511     | 714    | 10.3   | 70.3     | 47.5   |
|         | Ord. profit  | 41    | 175    | 230   | 285   | (55.4) | 90.2   | 109.1  | 45.4   | 216   | 515     | 731    | 17.4   | 68.3     | 49.2   |
|         | Profit ATOP  | 34    | 112    | 141   | 192   | (44.3) | (39.1) | 220.5  | 5.5    | 146   | 333     | 479    | (40.4) | 47.3     | 1.7    |
| FY6/17  | Net sales    | 1,654 | 2,139  | 2,264 | 2,413 | 24.3   | 28.5   | 19.7   | 4.0    | 3,793 | 4,677   | 8,470  | 26.6   | 11.1     | 17.5   |
| Non-Con | Oper. profit | 38    | 210    | 275   | 180   | 11.8   | 24.3   | 21.1   | (36.6) | 248   | 455     | 703    | 22.2   | (11.0)   | (1.5)  |
|         | Ord. profit  | 37    | 238    | 289   | 202   | (9.8)  | 36.0   | 25.7   | (29.1) | 275   | 491     | 766    | 27.3   | (4.7)    | 4.8    |
|         | Net profit   | 20    | 172    | 214   | 141   | (41.2) | 53.6   | 51.8   | (26.6) | 192   | 355     | 547    | 31.5   | 6.6      | 14.2   |
| FY6/18  | Net sales    | 2,322 | 2,371  | 3,136 | 2,775 | 40.4   | 10.8   | 38.5   | 15.0   | 4,693 | 5,911   | 10,604 | 23.7   | 26.4     | 25.2   |
| Non-Con | Oper. profit | 129   | 61     | 177   | 181   | 239.5  | (71.0) | (35.6) | 0.6    | 190   | 358     | 548    | (23.4) | (21.3)   | (22.0) |
|         | Ord. profit  | 128   | 69     | 176   | 201   | 245.9  | (71.0) | (39.1) | (0.5)  | 197   | 377     | 574    | (28.4) | (23.2)   | (25.1) |
|         | Net profit   | 83    | 46     | 109   | 139   | 315.0  | (73.3) | (49.1) | (1.4)  | 129   | 248     | 377    | (32.8) | (30.1)   | (31.1) |
| FY6/19  | Net sales    | 2,337 | 2,702  | 2,650 | 2,754 | 0.6    | 14.0   | (15.5) | (0.8)  | 5,039 | 5,404   | 10,443 | 7.4    | (8.6)    | (1.5)  |
| Non-Con | Oper. profit | 71    | 198    | 407   | 246   | (45.0) | 224.6  | 129.9  | 35.9   | 269   | 653     | 922    | 41.6   | 82.4     | 68.2   |
|         | Ord. profit  | 79    | 203    | 406   | 266   | (38.3) | 194.2  | 130.7  | 32.3   | 282   | 672     | 954    | 43.1   | 78.2     | 66.2   |
|         | Net profit   | 48    | 157    | 262   | 217   | (42.2) | 241.3  | 140.4  | 56.1   | 205   | 479     | 684    | 58.9   | 93.1     | 81.4   |
| FY6/20  | Net sales    | 2,417 | 2,550  | 2,838 | 3,116 | 3.4    | (5.6)  | 7.1    | 13.1   | 4,967 | 5,954   | 10,921 | (1.4)  | 10.2     | 4.6    |
| Non-Con | Oper. profit | 141   | 228    | 217   | 450   | 98.6   | 15.2   | (46.7) | 82.9   | 369   | 667     | 1,036  | 37.2   | 2.1      | 12.4   |
|         | Ord. profit  | 141   | 219    | 241   | 474   | 78.5   | 7.9    | (40.6) | 78.2   | 360   | 715     | 1,075  | 27.7   | 6.4      | 12.7   |
|         | Net profit   | 91    | 146    | 161   | 364   | 89.6   | (7.0)  | (38.5) | 67.7   | 237   | 525     | 762    | 15.6   | 9.6      | 11.4   |
|         |              |       |        |       |       |        |        |        |        |       | CE      | CE     |        | CE       | CE     |
| FY6/21  | Net sales    | 2,299 | 2,949  | _     | _     | (4.9)  | 15.6   | _      | _      | 5,248 | 5,752   | 11,000 | 5.7    | (3.4)    | 0.7    |
| Non-Con | Oper. profit | 134   | 272    | _     | -     | (5.0)  | 19.3   | _      | -      | 406   | 744     | 1,150  | 10.0   | 11.5     | 11.0   |
|         | Ord. profit  | 129   | 292    | _     | -     | (8.5)  | 33.3   | _      | -      | 421   | 769     | 1,190  | 16.9   | 7.6      | 10.7   |
|         | Net profit   | 84    | 202    | _     | _     | (7.7)  | 38.4   | _      | _      | 286   | 534     | 820    | 20.7   | 1.7      | 7.6    |

## **INTELLIGENT WAVE INC. Earnings Margins Analysis**

| J-GAAP  | JPY mn, % | 1Q  | 2Q    | 3Q  | 4Q  | 1Q             | 2Q    | 3Q    | 4Q    | 1H    | 2H      | FY    | 1H             | 2H      | FY    |
|---------|-----------|-----|-------|-----|-----|----------------|-------|-------|-------|-------|---------|-------|----------------|---------|-------|
|         |           |     | Earni |     |     |                | Marg  |       |       |       | arnings |       |                | Margins |       |
| FY6/16  | GP        | 332 | 477   | 556 | 628 | 24.9%          | 28.6% | 29.4% | 27.1% | 809   | 1,184   | 1,993 | 27.0%          | 28.1%   | 27.7% |
| Consol  | SG&A      | 297 | 309   | 329 | 344 | 22.3%          | 18.6% | 17.4% | 14.8% | 606   | 673     | 1,279 | 20.2%          | 16.0%   | 17.7% |
|         | EBITDA    | 84  | 212   | 280 | 352 | 6.3%           | 12.7% | 14.8% | 15.2% | 296   | 632     | 928   | 9.9%           | 15.0%   | 12.9% |
|         | OP        | 34  | 169   | 227 | 284 | 2.6%           | 10.2% | 12.0% | 12.2% | 203   | 511     | 714   | 6.8%           | 12.1%   | 9.9%  |
| FY6/17  | GP        | 342 | 572   | 656 | 562 | 20.7%          | 26.7% | 29.0% | 23.3% | 914   | 1,218   | 2,132 | 24.1%          | 26.0%   | 25.2% |
| Non-Con | SG&A      | 304 | 362   | 381 | 383 | 18.4%          | 16.9% | 16.8% | 15.9% | 666   | 764     | 1,430 | 17.6%          | 16.3%   | 16.9% |
|         | EBITDA    | 93  | 295   | 372 | 280 | 5.6%           | 13.8% | 16.4% | 11.6% | 388   | 652     | 1,040 | 10.2%          | 13.9%   | 12.3% |
|         | OP        | 38  | 210   | 275 | 180 | 2.3%           | 9.8%  | 12.1% | 7.5%  | 248   | 455     | 703   | 6.5%           | 9.7%    | 8.3%  |
| FY6/18  | GP        | 551 | 472   | 564 | 636 | 23.7%          | 19.9% | 18.0% | 22.9% | 1,023 | 1,200   | 2,223 | 21.8%          | 20.3%   | 21.0% |
| Non-Con | SG&A      | 422 | 411   | 387 | 455 | 18.2%          | 17.3% | 12.3% | 16.4% | 833   | 842     | 1,675 | 17.7%          | 14.2%   | 15.8% |
|         | EBITDA    | 238 | 177   | 296 | 322 | 10.2%          | 7.5%  | 9.4%  | 11.6% | 415   | 618     | 1,033 | 8.8%           | 10.5%   | 9.7%  |
|         | OP        | 129 | 61    | 177 | 181 | 5.6%           | 2.6%  | 5.6%  | 6.5%  | 190   | 358     | 548   | 4.0%           | 6.1%    | 5.2%  |
| FY6/19  | GP        | 526 | 672   | 884 | 725 | 22.5%          | 24.9% | 33.4% | 26.3% | 1,198 | 1,609   | 2,807 | 23.8%          | 29.8%   | 26.9% |
| Non-Con | SG&A      | 455 | 474   | 478 | 478 | 19.5%          | 17.5% | 18.0% | 17.4% | 929   | 956     | 1,885 | 18.4%          | 17.7%   | 18.1% |
|         | EBITDA    | 196 | 347   | 642 | 445 | 8.4%           | 12.8% | 24.2% | 16.2% | 543   | 1,087   | 1,630 | 10.8%          | 20.1%   | 15.6% |
|         | OP        | 71  | 198   | 407 | 246 | 3.0%           | 7.3%  | 15.4% | 8.9%  | 269   | 653     | 922   | 5.3%           | 12.1%   | 8.8%  |
| FY6/20  | GP        | 622 | 712   | 689 | 958 | 25.7%          | 27.9% | 24.3% | 30.7% | 1,334 | 1,647   | 2,981 | 26.9%          | 27.7%   | 27.3% |
| Non-Con | SG&A      | 480 | 485   | 472 | 507 | 19.9%          | 19.0% | 16.6% | 16.3% | 965   | 979     | 1,944 | 19.4%          | 16.4%   | 17.8% |
|         | EBITDA    | 286 | 375   | 364 | 617 | 11.8%          | 14.7% | 12.8% | 19.8% | 661   | 981     | 1,642 | 13.3%          | 16.5%   | 15.0% |
|         | OP        | 141 | 228   | 217 | 450 | 5.8%           | 8.9%  | 7.6%  | 14.4% | 369   | 667     | 1,036 | 7.4%           | 11.2%   | 9.5%  |
| 5Y AVG  | GP        | 475 | 581   | 670 | 702 | 23.6%          | 25.4% | 26.2% | 26.2% | 1,056 | 1,372   | 2,427 | 24.6%          | 26.2%   | 25.5% |
|         | SG&A      | 392 | 408   | 409 | 433 | 19.5%          | 17.9% | 16.0% | 16.2% | 800   | 843     | 1,643 | 18.6%          | 16.1%   | 17.2% |
|         | EBITDA    | 179 | 281   | 391 | 403 | 8.9%           | 12.3% | 15.3% | 15.1% | 461   | 794     | 1,255 | 10. <b>7</b> % | 15.2%   | 13.2% |
|         | OP        | 83  | 173   | 261 | 268 | 4.1%           | 7.6%  | 10.2% | 10.0% | 256   | 529     | 785   | 6.0%           | 10.1%   | 8.2%  |
|         |           |     |       |     |     |                |       |       |       |       | CE      | CE    |                | CE      | CE    |
| FY6/21  | GP        | 589 | 801   | -   | -   | 25.6%          | 27.2% | -     | -     | 1,390 | -       | _     | 26.5%          | -       | -     |
| Non-Con | SG&A      | 455 | 529   | _   | -   | 19.8%          | 17.9% | _     | -     | 984   | _       | _     | 22.9%          | _       | _     |
|         | EBITDA    | 316 | 448   | _   | -   | 13. <b>7</b> % | 15.2% | _     | -     | 764   | _       | _     | 14.6%          | _       | _     |
|         | OP        | 134 | 272   | _   | -   | 5.8%           | 9.2%  | _     | -     | 406   | 744     | 1,150 | 7.7%           | 12.9%   | 10.5% |



## **Non-consolidated Balance Sheets**

|   | Durania and dan dan dan dan dan dan dan dan da | Thousands of yen                              |
|---|--|---|
|   | Previous term end<br>(as of June 30, 2020)     | Current term end<br>(as of December 31, 2020) |
| Assets  | (83 01 14110 30, 2020)                         | (83 01 December 31, 2020)                     |
| Current assets                                    |  |   |
| Cash and deposits                                 | 3,641,864                                      | 3,741,171                                     |
| Notes and accounts receivable                     | 1,720,318                                      | 1,586,894                                     |
| Inventories                                       | 413,482  | 522,183                                       |
| Other   | 605,574  | 606,216                                       |
| Total current assets                              | 6,381,239                                      | 6,456,466                                     |
| Non-current assets                                |  |   |
| Property, plant and equipment                     | 537,972  | 508,75  |
| Intangible assets                                 |  |   |
| Software  | 1,262,416                                      | 1,218,999                                     |
| Other   | 202,895  | 100,260                                       |
| Total intangible assets                           | 1,465,312                                      | 1,319,25                                      |
| Investments and other assets                      |  |   |
| Investment securities                             | 1,359,193                                      | 1,457,12                                      |
| Other   | 808,293  | 689,133                                       |
| Total investments and other assets                | 2,167,487                                      | 2,146,25                                      |
| Total non-current assets                          | 4,170,771                                      | 3,974,27                                      |
| Total assets                                      | 10,552,011                                     | 10,430,73                                     |
| Liabilities                                       |  |   |
| Current liabilities                               |  |   |
| Notes and accounts payable                        | 627,020  | 623,76  |
| Income taxes payable                              | 61,971   | 114,69  |
| Advances received                                 | 1,381,890                                      | 1,138,46                                      |
| Provision for bonuses                             | 295,182  | 265,38  |
| Provision for bonuses for directors               | 42,682   | 17,17   |
| Other   | 541,881  | 566,05  |
| Total current liabilities                         | 2,950,627                                      | 2,725,54                                      |
| Non-current liabilities                           |  |   |
| Provision for retirement benefits                 | 490,430  | 518,34  |
| Provision for retirement benefits for directors   | 30,052   | 20,25   |
| Asset retirement obligations                      | 87,421   | 87,45   |
| Other   | 10,010   | 5,72  |
| Total non-current liabilities                     | 617,914  | 631,773                                       |
| Total liabilities                                 | 3,568,542                                      | 3,357,31                                      |
| Net assets  |  |   |
| Shareholders' equity                              |  |   |
| Capital stock                                     | 843,750  | 843,750                                       |
| Capital surplus                                   | 573,099  | 573,099                                       |
| Retained earnings                                 | 5,043,372                                      | 5,066,01                                      |
| Treasury stock                                    | (26,712)                                       | (26,712                                       |
| Total shareholders' equity                        | 6,433,508                                      | 6,456,15                                      |
| Valuation and translation adjustments             | 540.055  | 64= 66  |
| Valuation difference on avail-for-sale securities | 549,960  | 617,265                                       |
| Total valuation and translation adjustments       | 549,960  | 617,265                                       |
| Total net assets                                  | 6,983,469                                      | 7,073,419                                     |
| Total liabilities and net assets                  | 10,552,011                                     | 10,430,736                                    |



## Non-consolidated Statements of Income

|  |                       | Thousands of yen      |
|--|-----------------------|-----------------------|
|  | Previous term         | Current term          |
|  | (from July 1, 2019    | (from July 1, 2020    |
|  | to December 31, 2019) | to December 31, 2020) |
| Net sales                                    | 4,967,041             | 5,247,940             |
| Cost of sales                                | 3,633,129             | 3,858,124             |
| Gross profit                                 | 1,333,911             | 1,389,816             |
| Selling, general and administrative expenses | 965,130               | 984,228               |
| Operating profit                             | 368,781               | 405,587               |
| Non-operating income                         |                       |                       |
| Interest income                              | 305                   | 344                   |
| Dividend income                              | 20,735                | 20,887                |
| Other  | 2,366                 | 3,805                 |
| Total non-operating income                   | 23,408                | 25,036                |
| Non-operating expenses                       |                       |                       |
| Interest expenses                            | 55                    | 21                    |
| Commitment fees                              | 2,113                 | 2,758                 |
| Compensation expenses                        | 29,618                | 5,000                 |
| Other  | 348                   | 1,744                 |
| Total non-operating expenses                 | 32,135                | 9,524                 |
| Ordinary profit                              | 360,053               | 421,100               |
| Extraordinary income                         |                       | _                     |
| Extraordinary losses                         |                       | _                     |
| Profit before income taxes                   | 360,053               | 421,100               |
| Income taxes - current                       | 65,785                | 92,125                |
| Income taxes - deferred                      | 57,161                | 43,345                |
| Total income taxes                           | 122,947               | 135,471               |
| Profit                                       | 237,106               | 285,628               |
|  |                       |                       |



## Non-consolidated Statements of Cash Flows

|   | Thousands of yen      |                       |
|---|-----------------------|-----------------------|
|   | Previous term         | Current term          |
|   | (from July 1, 2019    | (from July 1, 2020    |
|   | to December 31, 2019) | to December 31, 2020) |
| Cash flows from operating activities  |                       |                       |
| Profit before income taxes  | 360,053               | 421,100               |
| Depreciation  | 291,632               | 357,515               |
| Share-based remuneration expenses   | 24,282                | 38,787                |
| Increase (decrease) in provision for bonuses  | (46,380)              | (29,794)              |
| Increase (decrease) in provision for bonuses for directors (and other officers)             | (25,005)              | (25,508)              |
| Increase (decrease) in provision for retirement benefits                                    | 22,868                | 27,918                |
| Increase (decrease) in provision for retirement benefits for directors (and other officers) | 3,057                 | (9,802)               |
| Interest and dividend income  | (21,041)              | (21,231)              |
| Interest expenses   | 55                    | 21                    |
| Compensation expenses   | 29,618                | 5,000                 |
| Commitment fees   | 2,113                 | 2,758                 |
| Decrease (increase) in notes and accounts receivable  | (85,257)              | (110,002)             |
| Decrease (increase) in inventories  | (206,849)             | (108,700)             |
| Increase (decrease) in notes and accounts payable   | 100,471               | (11,150)              |
| Other   | (100,209)             | 60,782                |
| Sub-total   | 349,408               | 597,692               |
| Interest and dividend income received   | 21,099                | 21,226                |
| Interest expenses paid  | (47)                  | (19)                  |
| Commitment fees paid  | (2,215)               | (2,443)               |
| Income taxes paid   | (329,871)             | (41,726)              |
| Net cash provided by (used in) operating activities   | 38,373                | 574,730               |
| Cash flows from investing activities  |                       |                       |
| Purchase of property, plant and equipment   | (119,233)             | (29,044)              |
| Purchase of intangible assets   | (295,949)             | (164,866)             |
| Purchase of investment securities   | (1,043)               | (1,218)               |
| Other   | 10,450                | (384)                 |
| Net cash provided by (used in) investing activities   | (405,776)             | (195,513)             |
| Cash flows from financing activities  |                       |                       |
| Repayments of lease obligations   | (17,781)              | (16,704)              |
| Purchase of treasury stock  | (136,100)             | _                     |
| Cash dividends paid   | (235,921)             | (262,209)             |
| Net cash provided by (used in) financing activities   | (389,803)             | (278,914)             |
| Effect of exchange rate change on cash and cash equivalents                                 | 414                   | (994)                 |
| Net increase (decrease) in cash and cash equivalents  | (756,791)             | 99,307                |
| Cash and cash equivalents at beginning of period  | 3,254,913             | 3,641,864             |
| Cash and cash equivalents at end of period  | 2,498,122             | 3,741,171             |



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