Galapagos NV (GLPG) Rating: Buy

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## Consolidation Post Gilead Transaction; Model Updates Post 3Q19

| Stock Data |  |  | 10/25/2019 |
| :---: | :---: | :---: | :---: |
| Price |  |  | \$166.49 |
| Exchange |  |  | NASDAQ |
| Price Target |  |  | \$205.00 |
| 52-Week High |  |  | \$191.63 |
| 52-Week Low |  |  | \$85.00 |
| Enterprise Value (M) |  |  | \$4,099 |
| Market Cap (M) |  |  | \$10,315 |
| Shares Outstanding (M) |  |  | 62.0 |
| 3 Month Avg Volume |  |  | 118,790 |
| Short Interest (M) |  |  | 0.79 |
| Balance Sheet Metrics |  |  |  |
| Cash (M) |  |  | \$6,215.8 |
| Total Debt (M) |  |  | \$0.0 |
| Total Cash/Share |  |  | \$100.33 |
| General: Currency used is roughly 1 Euro to $\$ 1.11$ US. Stock price is US\$ as on NASDAQ |  |  |  |
| EPS ( $€$ ) Diluted |  |  |  |
| Full Year - Dec | 2018A | 2019E | 2020E |
| 1Q | $€(0.73)$ | €(0.89) A | $€(0.36)$ |
| 2Q | $€(0.42)$ | $€(0.86) \mathrm{A}$ | $€(0.60)$ |
| 3Q | €0.27 | $€ 5.83 \mathrm{~A}$ | $€(0.70)$ |
| 4Q | €0.27 | $€ 3.17$ | $€(0.75)$ |
| FY | $€(0.56)$ | $€ 7.90$ | $€(2.48)$ |
| Revenue ( $¢$ ) |  |  |  |
| Full Year - Dec | 2018A | 2019E | 2020E |
| 1Q | €44.8 | €40.9A | €149.0 |
| 2Q | $€ 57.0$ | €67.6A | €149.0 |
| 3Q | €103.2 | €644.0A | €154.8 |
| 4Q | €112.8 | €364.4 | €162.6 |
| FY | €317.8 | €1,116.9 | €615.3 |

What's cooking? Front and center to any discussion on Galapagos concerns: (1) the likely RA label for filgotinib following the FDA decision to paint the JAK-class with a broad DVT/PE-related black box warning in the label for Rinvoq, which now has become the base case assumption for filgotinib; (2) the timing of the futility analysis for GLPG1690; (3) the outcome of the ROCELLA Phase 2 b program in OA, anticipated during 2020; and (4) the clinical readout and target identification from the Toledo-class of compounds. Clarity on the likely label for filgotinib remains the biggest uncertainty; however, the safety profile of the JAK1selective filgotinib remains compelling, devoid of EPO or JAK2 pathway activation translating into a differentiated hematologic and DVT/PE profile. The 3Q19 call provided limited clarity on the pending outcome of the NDA filing anticipated by YE19. Given that filgotinib's labeling outcome is not expected until 2 H 20 , which assumes partner Gilead (GILD, not rated) pushes forward with a PRV, the current discussion is pure conjecture. This is one scenario where we believe management is likely to welcome an ADCOMM, which if successfully executed upon could translate into a label reflecting: (1) the 200 mg dose, which would make filgotinib the only JAKi approved at the highest dose; and (2) DVT/PE and malignancy-sparing black box, both of which could be commercially relevant differentiators, from our perch. Management is expected to provide clarity on the enrollment of the ISABELLA clinical program with GLPG1690, along with timing of the futility analysis during the planned R\&D day update on $11 / 14 / 2019$, which remains a significant near- to intermediate-term binary event for the stock, in our view. While there has been significant discussion on the two TOLEDO-generated compounds now in Phase 1, management is unlikely to disclose the potential targets at least until any potential Phase 2 programs initiate, in our view. Overall the stock remains an outperformer, up $86 \%$ YTD vs. a $14 \%$ gain in the XBI, leveraging off of the FINCH 1 and 3 readouts and the subsequent Gilead transaction, and we are staying with our Buy rating and $\$ 205$ target.

Ambitious plans for the \$6B cash: Toledo and beyond. The Toledo platform remains the near-to-intermediate term driver for the company's discovery engine. The company plans on advancing one or both Toledo generated leads i.e., GLPG3667, a pan-Toledo compound, and the more selective GLPG3970, into Phase 2 programs across multiple inflammatory indications. Management commentary suggests no near-to-intermediate term competition on the Toledo target for autoimmune diseases although, peers are investigating the target in oncology. Future, Toledo-derived assets could supplant filgotinib in autoimmune diseases if their safety profile is clean. More than $50 \%$ of research at Galapagos is focused on Toledo and given Gilead's involvement and cost sharing, Toledo is fully funded. The company is actively seeking to expand targets including RNA based technologies, but not necessarily RNAi or siRNA, and management is likely to be acquisitive if the program or platform offers the right synergies. Gilead would have rights to the novel targets and acquisitions. Importantly, if an opportunity called for a significant cash outlay, Gilead could come to the table. Current research initiatives in: hepB, metabolic indications, as well as in the CNS, along with investments in additional assets targeting OA.

Filgotinib regulatory, commercial, and clinical updates. The compan filed for approval of filgotinib in RA in the EU and Japan with potential availability in these markets in 2 H 20 pending reimbursement decisions, and partner Gilead is on track to complete U.S. filing prior to YE19. Launch preparedness includes messaging around the potentially differentiated hematologic and JAK-2 sparing profile of filgotinib, which has translated into the best PE/DVT profile to date. While U.S. efforts are being led by partner Gilead, Galapagos intends to build out a 150 employee sales and marketing organization in seven EU markets, where it is co-commercializing filgotinib. Other filgotinib programs to watch for include: (1) ulcerative colitis, for which we expect to have data during 2020; (2) initiation of a Phase 3 Psoriatic arthritis study; (3) additional analysis of the FINCH 2 program in patients with RA who were previously treated with a biologic; and (4) a pooled safety analysis of filgotinib across the FINCH programs. Both FINCH data analyses are expected at the American College of Rheumatology between November 8 to 13, 2019. On the negative side of the ledger, with no implications to our model considering these were not a part of our value proposition, the exploratory studies in cutaneous lupus and Sjogren's studies did not meet their primary endpoints. There was however evidence of filgotinib's activity not in random biomarkers but actually seen in relevant disease markers, particularly in patients who had markers or evidence of more active disease, as in patients with bone ascites. During the call, management hinted at optionalities to revive the programs in specific subsets of patients pending full data evaluation with an eye on the competitive landscape.

Other pipeline events. Beyond the Toledo programs, Galapagos in partnership with MorphoSys (MOR; not rated) and Novartis (NVS; not rated) has initiated the entho-bridging study of MOR106, in Japan. In addition to GLPG1690, currently in Phase 3, Galapagos is pursuing GLPG1205, a GPR4 antagonist as another option for IPF and is currently in Phase 2. The resulting Phase 2 profile is likely to dictate any future combinations of GLPG1205 with GLPG1690.

Thoughts on GLPG1690. One potential concern voiced was that increased dosing of pirfenidone or nintedanib in the control arms could counter the decline in FVC leading to a diminished clinical effect associated with GLPG1690. However, this is unlikely given the tolerability issues with pirfenidone and nintedanib, and we expect higher than recommended dosing of these drugs could lead to increased rates of patient drop off in the control cohorts. FRI analysis from the FLORA study remains a key basis for management confidence in the program, but FRI remains a no-go in the Phase 3 ISABELLA programs due to cost and agency reticence. Note, validation for GLPG1690 comes from Bristol-Myers (BMY; not rated) decision to pursue a new molecule targeting LPA1, downstream of GLPG1690's target, and Boehringer Ingelheim's (private) decision to in-license an autotaxin program despite passing on GLPG1690 two years ago. Per management, the enrollment in the ISABELLA programs are now accelerating and is currently ahead of schedule.

## Exhibit 1: Clinical and Commercial Milestones Over the Next 16 Months

|  | Program | Indication | Phase and Milestone | Timing | Impact on Stock |
| :---: | :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & \frac{9}{0} \\ & \frac{3}{3} \\ & \frac{0}{8} \\ & \frac{0}{8} \\ & \frac{0}{c} \\ & \hline 0 \end{aligned}$ | GLPG1205 | Idiopathic Pulmonary Fibrosis | PINTA Phase 2 recruited | Complete | Limited |
|  | GLPG1205 | Idiopathic Pulmonary Fibrosis | ACR Conference | 4Q19 | Moderate |
|  | GLPG1690 | Idiopathic Pulmonary Fibrosis | Futility analysis timing from the Phase 3 ISABELA program | $\begin{gathered} \text { R\&D day, } \\ 11 / 14 / 2019 \end{gathered}$ | Limited |
|  | Mor106 | Atopic Dermatitis | Japanese ethnobridging study | Initiated | Limited |
|  | '3970 | Multiple inflammatory indications | Phase 1 | Initiated | Limited |
|  | '3312 | Inflammatory Bowel Disease | PoC | Initiation 1H20 | Limited |
|  | '3312 | Multiple inflammatory indications | Phase 1 readout | Initiation 1H20 | High |
|  | '3667, '3970 | Inflammation | Phase 1 readout | 2 H 2 O | High |
|  | Mor106 | Atopic Dermatitis | IGUANA Phase 2 topline | YE19 to 1Q20 | High |
|  | '2534 | Atopic Dermatitis | Phase 1 start | Initiation 1H20 | Limited |
|  | '3970 | Inflammation/Target identification | Several Phase 2a trials start | 2020 | High |
|  | GLPG1972 | Osteoarthritis | ROCELLA Phase 2b Topline | 2 H 20 | High |
|  | Filgotinib | Ulcerative Colitis | Phase 3 topline | 2020 | High |
| $\begin{aligned} & \frac{\bar{w}}{9} \\ & \frac{0}{8} \\ & \frac{8}{8} \end{aligned}$ | Filgotinib | Rheumatoid Arthritis | EMA and Japanese regulatory filing | Complete | Limite d |
|  | Filgotinib | Psoriatic Arthritis | Phase 3 | Initiated | Limited |
|  | Filgotinib | Rheumatoid Arthritis | NDA submission | Completion by YE19 | Limited |
|  | Filgotinib | Rheumatoid Arthritis | EU commercial launch | 2 H 20 | Moderate |
|  | Filgotinib | Rheumatoid Arthritis | FDA label and U.S., commercial launch | Late 2020 or 1Q21 | High |

Source: H.C. Wainwright \& Co. estimates.
Landmark deal with long-time collaborator, paves the way for strong revenue line in 3Q19. For 3Q19, Galapagos reported a net gain of $€ 361 \mathrm{M}$ vs. our estimates of $€ 297.4 \mathrm{M}$, with GAAP EPS of $€ 5.83$ vs. our estimates of $€ 4.80$. The $€ 596 \mathrm{M}$ topline reflected: (1) $€ 667 \mathrm{M}$ immediate recognition for the opt-in of '1690; (2) $€ 24 \mathrm{M}$ recognition of the platform portion upfront; and (3) ( $€ 94 \mathrm{M}$ ) negative impact on filgotinib revenue recognition. Balance sheet currently reflects $\$ 6.2 \mathrm{~B}$ ( $€ 5.6 \mathrm{~B}$ ) in cash and equivalents, which includes Gilead's recent collaboration deal of roughly $\$ 3.95 \mathrm{~B}$ in cash, and $\$ 1.1 \mathrm{~B}$ in equity investment. Galapagos now has $€ 3.1 \mathrm{~B}$ in deferred revenues, which would drive at least $€ 400 \mathrm{M}$ in revenue recognition annually in the next $4-5$ years, which is expected to trail off to roughly $€ 200 \mathrm{M}$ per year after that. Together, these cash reserves should be sufficient to fund operations for at least six years, by our estimates. Note, as Galapagos builds out filgotinib's commercial position in 2020 , filgotinib-related spend in the next five years would equate to roughly $€ 750 \mathrm{M}$ in total. For FY19 and FY20 we estimate GAAP EPS of $€ 7.90$ /share and $€(2.48)$ /share, respectively, vs. prior estimates of $€ 8.52 /$ share and $€ 2.21 /$ share, respectively.

Valuation and risks to our investment thesis. Our 12-month price target on shares of Galapagos is $\$ 205$, which is derived from a 13-year DCF-based, sum-of-the-parts analysis. Our DCF is driven by: beta of 1.26, terminal growth rate of $-3.0 \%$, risk premium of $4.93 \%$, calculated WACC of $8.2 \%$, and tax rate of $20 \%$ beginning in FY 2025. Filgotinib (68\%), GLPG1690 and GLPG1972 ( $3 \%$ each) together make up about $75 \%$ of our value, with the remainder derived from the probability-adjusted, filgotinib-associated milestone payments. For filgotinib, we assume POS in the range of: $80 \%$ for RA based on the FINCH 1 and 3 clinical updates released post close on March 28, 2019, 65\% for UC, and 60\% for CD, PsA and AS each, whereas for '1690 and '1972, we assign a $35 \%$ and 10\% POS, respectively. Key risks include: emergence of safety concerns, clinical risks, regulatory risks, and financial risks. Furthermore, regulatory and commercial strategy for filgotinib is under the control of partner, Gilead, not an established player in autoimmune indications. Hence, Gilead may not be able to drive rapid adoption of filgotinib, especially if the overall profile is relatively undifferentiated from AbbVie's (ABBV; not rated) upadacitinib, in our view. Hence, our estimates could be negatively impacted if AbbVie successfully leverages its market positioning with Humira during the launch of upadacitinib, which is likely to be a year ahead of filgotinib. The next two value drivers for Galapagos are GLPG1690 and GLPG1972 programs, both of which are high-risk, high-reward programs given the checkered history of drug development of each target.

Valuation: Galapagos (GLPG) Discounted Cash Flow (DCF) Analysis

|  |  | Discounted Cash Flow Analysis |  | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 | 2031 | TV |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Ticker | GLPG |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Period | 2028 E | EBIT (000s £) | $€$ | 592,676 | $(156,904)$ | $€(160,605)$ | $€ \quad 29,598$ | $€ 350,283$ | $€ 582,263$ | € 895,603 | $€ 1,379,104$ | € 1,469,952 | $€ 1,532,824$ | € 1,489,358 | $€ 1,507,322$ | $€ 1,517,380$ |  |
| Beta est | 1.26 | Tax rate |  | -3.8\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 20.0\% | 20.0\% | 20.0\% | 20.0\% | 20.0\% | 20.0\% | 20.0\% |  |
| Risk-free rate ( $\mathrm{R}_{\mathrm{F}}$ )(10 yr yield) | 2.00\% | EBIT*(1-t) |  | 614,903 | $(156,904)$ | $(160,605)$ | 29,598 | 350,283 | 582,263 | 716,483 | 1,103,283 | 1,175,961 | 1,226,259 | 1,191,486 | 1,205,857 | 1,213,904 |  |
| Risk premium ( $\mathrm{R}_{\mathrm{p}}$ ) | 4.93\% | Capital expenditures |  | $(18,572)$ | $(20,000)$ | $(22,000)$ | $(24,200)$ | $(26,620)$ | $(29,282)$ | $(32,210)$ | $(35,431)$ | $(38,974)$ | $(42,872)$ | $(47,159)$ | $(51,875)$ | $(57,062)$ |  |
| Cost of equity (KE) | 8.2\% | \% growth |  | 78.7\% | 7.7\% | 10.0\% | 10.0\% | 10.0\% | 10.0\% | 10.0\% | 10.0\% | 10.0\% | 10.0\% | 10.0\% | 10.0\% | 10.0\% |  |
| Cost of debt ( $\mathrm{K}_{\mathrm{D}}$ ) | 0.0\% | Depreciation |  | 12,087 | 14,000 | 16,800 | 17,640 | 18,522 | 19,448 | 20,421 | 21,442 | 22,514 | 23,639 | 24,821 | 26,062 | 27,365 |  |
| Terminal growth rate | -3.0\% | \% growth |  | 188.4\% | 15.8\% | 20.0\% | 5.0\% | 5.0\% | 5.0\% | 5.0\% | 5.0\% | 5.0\% | 5.0\% | 5.0\% | 5.0\% | 5.0\% |  |
| Terminal value (\% of total value | 42.2\% | Change in non-cash working capital |  | $(175,152)$ | $(161,149)$ | $(166,392)$ | $(179,056)$ | (202,236) | (202,077) | (201,913) | (201,744) | (201,570) | (201,391) | $(201,207)$ | (201,017) | $(200,821)$ |  |
| Shareholder equity | 8,348,082 | \% growth |  | -334.7\% | 8.0\% | -3.3\% | -7.6\% | -12.9\% | 0.1\% | 0.1\% | 0.1\% | 0.1\% | 0.1\% | 0.1\% | 0.1\% | 0.1\% |  |
| Debt outstanding | 0 | Free cash flow to the firm |  | 820,714 | 38,245 | 44,587 | 250,495 | 597,661 | 833,070 | 971,026 | 1,361,900 | 1,439,020 | 1,494,162 | 1,464,673 | 1,484,811 | 1,499,153 | 12,970,069 |
| Total capital | 8,348,082 | Discount factor |  | 0.94 | 0.92 | 0.85 | 0.79 | 0.73 | 0.67 | 0.62 | 0.58 | 0.53 | 0.49 | 0.45 | 0.42 | 0.39 |  |
| Equity/cap | 100.0\% | Present value of cash flows |  | 768,475 | 35,343 | 38,076 | 197,685 | 435,870 | 561,447 | 604,760 | 783,832 | 765,367 | 734,389 | 665,265 | 623,233 | 581,501 | 4,952,129 |
| Debt/cap | 0.0\% | Value of firm |  | 11,747,371 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| WACC (calculated) | 8.2\% | Debt |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| WACC (applied) | 8.2\% | Value of equity |  | 11,747,371 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Shares outstanding | 63,521 | Value per share (\$) | \$ | 205.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |

Source: H.C. Wainwright \& Co. estimates.


Cash Flow Statement

| Sh hows stat | ${ }^{2018 A}$ | 10194 | 20194 | за19А | 4019 E | $2019 E$ | $1{ }^{1020 E}$ | 2020 E | 3020 E | 4020 E | 2020 E | 20215 | 2027 E | ${ }^{2023 E}$ | 204 E | ${ }^{202585}$ | ${ }^{2026 E}$ | 2027 E | ${ }^{202885}$ | ${ }^{2029 E}$ | ${ }^{2030 E}$ | 20315 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| san flows trom Operating activities: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Net gain (loss) | $\epsilon \quad(29,259$ | ${ }^{(48.656) ~} ¢$ | $\epsilon(47,249)$ | 36,1234 | 196,654 | ${ }^{461,983}$ | 22,286) | ¢ ${ }^{(37,411)}$ ¢ | ${ }^{\epsilon}(48,141) \in$ |  | (154,904) | (158,745) |  | ${ }^{352,34}$ |  | 718,291 | $\epsilon{ }_{6} 1,105,182$ | 1,177,955 | € 1.22, 353 |  | 1,208,166 | 211,238 |
| Adussment ori iens to discosos under invesing and financing asht tows | ${ }_{\text {(1868 }} 18.54$ | ${ }^{\text {a }}$ (3) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Change in wotking capial other than deterred income | 19,922 | (2,294) | ${ }^{(13,24)}$ | . 044 | 55.000 | ¢,126 |  | (3.50) |  |  | (14,000 |  |  | 030 |  | 5,628) | 5,796) | 5,970) | .149) | (6,34) | ${ }_{\text {(6,524 }}$ | (820) |
| Decrase in delerend income | (153.312) | (25.799) | (27,99) | 2,943,764 | (25,00) ${ }_{\text {co }}$ | \%865,266 | (100.000) 650 | (100.000) 650 | $1000.00)$ <br> f50 | ${ }^{100,000)}$ |  | (100.000) |  | 400.000 <br> 3,451 | 175.000 <br> 307 | 175.000 <br> 188 <br> 4 | (150,000) | (50.00) | (155,000) | (10.000 | 75,00) <br> 6744 <br> 6. | (50.00) |
| Inteestspadid and received, net necome taxes paid | 3,495 | (1238) | (2,00 | ${ }_{9}^{990}$ (57) | 500 | 4, $\begin{aligned} & 4,728 \\ & (145)\end{aligned}$ | ${ }^{650}$ | ${ }^{650} 0$ | ${ }^{650} 0$ |  | 2,600 | 2.880 | 146 |  |  |  | 4,006 | ${ }^{5,067}$ |  |  |  |  |
| Net cash provided (used) by Operating activities | (142,466) | (71,68) | (70,042) | 3,470,998 | 222,404 | 3,577,162 | (108,586) | (123,211) | (133,41) | (131,865) | ${ }_{\text {(997, } 104}$ | (477,23) | [273,43] | 6, ${ }^{\text {a }}$, | 507,49 | 650,36 | 1,072,274 | 0,155,933 | 1,218,27 | ${ }^{\text {1,24,687 }}$ | 1,300,500 | 1,399,370 |
| Hows trom Investing activities: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Pucroseses ot proenty and equipment | (10,392) | (2, 103) |  | (12,28) | (1,25) | (18,572) |  |  |  |  | 20,000) |  |  | 26,620) |  | (322, 210 |  |  |  |  |  |  |
|  | ${ }^{(3,325)}$ | (1,201) | ${ }_{1}^{(2,334)}$ | ${ }^{(1,930)}$ (1) |  | ${ }^{(6,215)}$ | ${ }^{(1,000)}$ | ${ }^{(1,000)}$ | ${ }^{(1,000)}$ |  | ${ }^{(4,000)}$ | (4,200) | ${ }^{4,440}$ | ${ }^{4,6,631)}$ | ${ }^{(4,882)}$ | (5, $0_{0}$ | ${ }^{(5,530)}$ |  |  |  | ${ }^{(6,516)}$ |  |
| Decrease in ressticeded cash |  |  | 0 | 0 |  |  | - | 0 | 0 |  |  |  |  |  |  | $0$ |  |  |  |  |  |  |
|  |  | ${ }_{82}^{(177)}$ | 0 | - |  | ${ }_{\substack{1777 \\ 82 \\ \hline \\ \hline}}$ | - | - | $\bigcirc$ |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Not cash provided (used) by livesting activties | (15,914) | (3,38) | (5,263) | (14,220) | 200) | ${ }^{(2,8,81)}$ | (6,000) | (6,000) | (6,000) | (6,000) | 24,000 | (26,200) | ${ }^{22,610}$ | 251) | $(33,144)$ | [37,315) | (40,792) | (44,603) | (48,782) | (5, 364) | (58,390) | (6, ${ }^{\text {a }}$ ( |
| Cash hows trom Financing activities: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Repayment ot otigations under france leases and other debis |  | (1,248) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Proceds tom captala ads sharep pemium inceases, qross amount | ${ }^{2966,188}$ | 0 | $\bigcirc$ | ${ }^{960,087}$ |  | ${ }^{960,087}$ |  | : |  |  |  |  |  |  |  | $\bigcirc$ |  |  |  |  |  |  |
|  | (15,964) | 3.481 | 4.324 | ${ }_{6.675}$ |  | 14,480 |  | $\bigcirc$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Not cast provided (useed) by Financing activitios | 287,876 | 2,233 | 3,428 | 965,072 |  | 970,733 | 0 | 0 | $\bigcirc$ | 0 | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | - | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ |  |
| Eteest to exchang erate difterences on cash and cash equivalents | 10.089 | 4.968 | (3,101) | 30.514 |  | 32,381 | 0 | - | 0 |  |  |  |  |  |  |  |  | O |  |  |  |  |
| Tr increase (docrease) in Casht Cass Equivalents |  |  |  | ${ }_{\text {a }}^{\text {4,451,64 }} 1$ |  |  |  |  |  | ${ }_{\text {5.456.953 }}^{(13785}$ | (5821,104) |  | (302,033 | $\begin{array}{r}34,185 \\ 4.51,603 \\ \hline\end{array}$ | 47, 4.3535 | ${ }_{\text {ckin }}^{613,121}$ | - | cintin, | (1,69,995 | (1,193,323 | $1,24,109$ 10.139885 1 |  |
|  | $\frac{1,151,21}{1,29099}$ | ${ }^{1,290,796}$ | $\frac{1,222,901}{11,147923}$ | $\frac{1,147,23}{55,59987}$ | ${ }_{\text {5,599,787 }}^{5.800191}$ | $\frac{1,290,766}{5.800191}$ | ${ }_{5}^{5,80,191}$ | $\frac{5,725.005}{55,59634}$ | $\frac{5.596,394}{\epsilon 5,45953}$ | ${ }_{5}^{5,456,933}$ | $\frac{5.840,191}{5,319088}$ | $\frac{5,399088}{4.815,566}$ | 4,815,666 | 4,513,603 | 4,54,788 | 5,021,23 | 5,634,244 | 6,666,726 | - $7,777,067$ | 8,94,562 | $\begin{array}{r}10,139,85 \\ \hline 11,381994 \\ \hline 1\end{array}$ | $\begin{array}{r}11,381,94 \\ \hline 12.657490\end{array}$ |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |


| Balance Sheet |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Balance sheet | 2018 A | 1019A | $2019 A$ | 3019a | 40195 | $2019 E$ | ${ }^{1020 E}$ | 20205 | 3020 E | 20 E | 2020 E | 21 F | 2027 | ${ }^{2023 E}$ | ${ }^{2024 E}$ | ${ }^{2023 E}$ | 2088 E | 207 E | 2088 | ${ }^{2029 E}$ | 20305 | 20315 |
| (sis intousands, except per share data) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| els |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Cash and cash euwivalens | $\epsilon 1.290,796$ | € 1.222 .901 | ${ }_{\text {f 1,147,923 }}$ | ¢ 5.599,787 | ¢ 5.840,191 | ¢ 5.840 .191 | ¢ 5.725.605 | E5.596.394 | $\epsilon 5_{\text {5.456,953 }}$ | ${ }_{5} 53919088$ |  |  |  |  |  |  |  |  |  |  |  |  |
| Trade and ofter recevivabes | 18,609 | 15,347 | 42,067 | 32,642 | 30,142 | 30,142 | ${ }^{31,392}$ | ${ }^{32,642}$ | ${ }^{33,992}$ | 35,42 | 35.142 | 41,385 | ${ }^{47,940}$ | 54,823 | 77,92 | 105,642 | 142,122 | ${ }^{180,395}$ | 220,005 | 259,193 | 298,991 | 33,281 |
| Current R8D incenines Peecevables | 11,203 | ${ }^{11,645}$ | ${ }^{11,644}$ | 9,746 | ${ }^{7,246}$ | ${ }^{7,246}$ | ${ }^{8.496}$ | 9.746 | ${ }^{10,996}$ | ${ }^{12,246}$ ] | 12.246 | 18.489 | 25.044 | ${ }^{31,927}$ | 54,596 | ${ }_{82,746}$ | 119,226 | 157,499 | 197,109 | 236,297 | 27,095 | ${ }^{316,385}$ |
| Curen mesinicea cash | 8.243 | 9.351 | 6.970 | 8.837 | 8.837 | 8.837 | 9.837 | 10.887 | ${ }^{11,887}$ | 12,837 | 12.837 | 17,837 | ${ }^{22,987}$ | 28.292 | ${ }_{33,755}$ | 39.383 | 45.179 | 51.49 | 57.29 | 63.633 | 70.156 | 76.876 |
| Total current assels | 1,328,551 | 1,25,244 | 1,208,604 | 5,65,012 | 5.886,416 | 5,886,416 | 5,775,330 | 5,649,619 | 5,513,678 | 5,379,313 | 5,379,313 | 4,89,367 | 4,609,574 | ${ }^{4,662,830}$ | 5,186,965 | ${ }_{5,862,015}$ | ${ }_{6,972,253}$ | ${ }^{8,166,109}$ | 9,420,976 | 10,99,006 | 12,27,2,26 | 13,400,001 |
| Intanglie assels | ${ }^{3.632}$ | 6.497 | 7,191 | 23,492 |  | 24,242 | ${ }^{24,992}$ | 25,142 | 25,592 |  | 26,042 | 27,932 |  | 32,000 | ${ }^{34,188}$ | ${ }^{36,485}$ | ${ }^{38,898}$ | ${ }^{41,430}$ |  |  |  |  |
| Propert, plant and dequipment, net | -23,137 | ${ }_{\text {4,542 }}$ | ${ }_{\text {cki,180 }}$ | ${ }^{61,883}$ | ${ }^{59,883}$ | ${ }^{59,883}$ | ${ }^{61,383}$ | 年,8838 | ${ }^{64,383}$ |  | \%6,883 | ${ }^{71,083}$ | ${ }^{77,643}$ | ${ }^{85,74}$ | ${ }^{9,5,575}$ | 107,365 | ${ }^{121,354}$ | ${ }^{137,815}$ | 157,048 | 179,385 | ${ }^{205.198}$ | 234,995 |
|  | 2.514 73.43 | 2.511 76.029 | 2.516 82.644 | 19,406 89.965 | 19,406 <br> 89.965 <br> 8.9 | $\begin{array}{r}19,066 \\ \hline 8965 \\ \hline\end{array}$ | 19.406 <br> 89965 <br> 8.9 | 19,406 <br> 89965 <br> 8.9 | 19,406 <br> 89965 <br> 8.959 |  | 19,066 | 19,406 | \%19,406 | \% 19.4006 | ${ }_{\text {19, }}^{19,406}$ |  |  |  | 19,406 | 19,066 | 19,406 | 19,406 |
| Norcuren Other noururent assests | - | ${ }_{\substack{7,029 \\ 6,377}}^{\substack{\text { a }}}$ | ${ }_{\substack{88,713 \\ 5.754 \\ \hline}}^{\text {8, }}$ | ${ }_{\substack{89.965 \\ 5.994}}^{19.9}$ |  | ¢89.95 | ${ }_{5}^{89.965} 5$ | ${ }_{\substack{88.965 \\ 5.94}}^{1989}$ | ${ }_{\substack{89.965 \\ 5.994}}^{19}$ | ${ }_{\substack{88,965 \\ 5.994}}^{19}$ | cis.965 | cis.965 |  | cis.996 |  |  | $\underset{\substack{89,965 \\ 5.994}}{\text { ces }}$ |  | cise.965 | cis.965 | cis.965 | cises |
| Totala asels | 1,939,946 | 1,900,200 | 1,357,848 | 5,551,752 | 6,085,966 | 6,085,906 | 5.976,70 | 5,85,009 | 5,79,018 | 5,586,603 | 5,586,03 | 5,07,747 | 4,832,499 | 4,995,937 | 5,432,093 | ${ }_{6,121,230}$ | ${ }_{7,247,870}$ | 8,460,720 | 9,737,478 | 11,00, 639 | 12,39,613 | 13,003,154 |
| Labilities and stocknolders' equity |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Curent tiabilites: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 68.288 | ${ }_{\text {c }}^{4.5880}$ | ${ }_{\text {c, }}^{56.214}$ |  | \% $\begin{gathered}5,251 \\ 206,24\end{gathered}$ | \% $\begin{gathered}5,251 \\ 206,254\end{gathered}$ | ${ }_{\text {20, }}^{50.251}$ | 5, $\begin{gathered}5,251 \\ 206,24\end{gathered}$ | 506,254 |  | \% $\begin{array}{r}\text { 5,251 } \\ 206,254\end{array}$ |  | 25,0,298 | 58,051 |  | 5,54 389,677 | ${ }_{\text {462,605 }}^{5.251}$ |  | ( $\begin{gathered}5.251 \\ 618,373\end{gathered}$ | ¢96,747 | (5,251 <br> 77,344 | 5.5.951 |
| Curent tex payable | 1,175 | ${ }^{\text {1,168 }}$ | ${ }_{\text {1,031 }}^{81.261}$ | ${ }^{150,232}$ | ${ }^{20,1,32}$ |  | ${ }_{\text {a }}$ | ${ }_{\text {1,032 }}$ |  |  |  | - | ${ }^{250,032} 1$ | ${ }^{1}$ | (1,032 |  |  | ¢39,51, 1,032 |  |  | (17, | (1,032 |
| Curent dederexd inco | 149.801 | ${ }^{123,822}$ | 96.325 | 468,764 | 468.764 | 468,764 | 468,764 | 468,764 | 468,764 | 468,744 | 468,764 | 468,764 | 468,764 | 468,764 | 468,764 | 468,764 | 468,764 | 468,764 | 468,764 | 468,764 | 468,764 |  |
| Total current liabilities | 219,94 | 199,450 | 188,713 | 631,301 | 681,301 | ${ }^{681,301}$ | ${ }^{681,301}$ | 681,301 | 681,301 | 681,311 | 688,301 | 700,30 | 725,955 | 763,56 | ${ }^{80,392}$ | 864,94 | ${ }^{937,652}$ | 1,014,198 | 1,093,420 | 1,171,794 | 1,251,391 | .33,970 |
| Pension lialities | 3,764 159 1 | ${ }_{\substack{3,551 \\ \text { 21,144 }}}$ | ¢ $\begin{aligned} & 3,939 \\ & \text { 21,89 }\end{aligned}$ | ${ }_{\substack{4.026 \\ 22,131}}$ | ${ }_{4}^{4.026}$ | 4, 4.268 | ${ }_{\text {che }}^{4.026}$ | ${ }^{4.026}$ | ${ }_{\text {2, }}^{4.02681}$ | ${ }_{2}^{4.02361}$ | 4.026 <br> 2523 | ${ }_{\text {a }}^{4.026}$ | ${ }_{\substack{4.4268 \\ 31237}}$ | - ${ }_{\text {4,026 }}$ |  | ${ }^{4} 4.026$ | ${ }^{4.026}$ |  | $\begin{array}{r}4.026 \\ 57.988 \\ \hline\end{array}$ | ${ }_{4}^{4.026}$ | $\begin{array}{r}4.026 \\ 70,812 \\ \hline\end{array}$ | 4,026 |
|  | 1.579 | ${ }^{21,144}$ | ${ }^{21,1829} 0$ | 22,131 2.65.013 | ${ }_{2.654 .013}^{22.631}$ | 22,631 2.64 .013 | ${ }_{2}^{2354.0131}$ | ${ }_{\text {2.434.013 }}^{23.931}$ | ${ }_{2.344 .013}^{24.581}$ | ${ }_{2.234,013}^{25,231}$ | - $\begin{array}{r}25.231 \\ 2.234,013\end{array}$ |  | 31,237 <br> 434.013 | 34,998 | ${ }^{38,504}$ | ${ }_{\text {che }}^{484,692}$ | \%47,298 <br> 54.013 |  |  |  |  |  |
| Total liabilitios | 225,247 | ${ }^{224,445}$ | 214,481 | 3,316,471 | 3,34,971 | 3,44,971 | 3,242,621 | 3,143,271 | 3,043,921 | 2,94,571 | 2,94,571 | 2,56, 160 | 2,195,231 | ${ }^{\text {1,835,792 }}$ | 1,709,935 | 1,595,424 | ${ }^{1,522,989}$ | 1,454,601 | 1,389,396 | 1,373,001 | 1,385,242 | 1,423,239 |
| Share capital | 236,540 |  |  | 272,605 |  | 272.605 |  | 272,005 | 272.605 | 272,605; | 272.605 | 272,605 | 27.605 | 272,605 | 272,605 | 272,605 | 272,605 | 27.605 | 272,605 | 272,605 | 272,605 |  |
| Share premium account | 1,277,780 | 1.280,452 | 1,28,650 | 2.286,555 | 2,88, 85 | 2,280,585 | 2,293,085 | 2,30,085 | 2,319,585 | 2,33,585 | 2,33,565 | 2,39,885 | 2,456,015 | 2,526.558 | 2,604,155 | $2.689,512$ | 2,783,405 | 2,886,687 | 3,000,297 | 3.125.269 | 3,262,737 | 3,413,952 |
| Other resenes | ${ }^{\text {(17557) }}$ | ${ }^{(735)}$ | ${ }_{\text {(1,505 }}^{(175)}$ | ${ }^{(735)}$ | ${ }_{\text {(1287) }}^{\text {(735] }}$ | ${ }_{\text {c }}$ |  | ${ }_{\text {(128) }}^{(1735)}$ | ${ }^{(1735)}$ |  |  |  |  |  |  |  | ${ }_{\text {c }}$ |  |  |  |  | ${ }_{\text {c }}$ |
| Accumulated losses | (299779) | (340,020) | (376,518) | (3,907) |  | 1922747 | 170.461 |  | 84,909 | 37,844 | 37,844 |  |  |  |  |  |  | 3.848.828 |  |  | 7,479.032 | 8.695.599 |
| Total stockholders' equity | 1,214,249 | 1,175,755 | 1,143,367 | 2,53,281 | 2,743,935 | 2,743,935 | 2,78,149 | 2,70,738 | 2,675,097 | 2,642,032 | 2,642,032 | 2,54,566 | 2,637,268 | 3,066,144 | 3,722,158 | 4,525,506 | 5,724,881 | 7,006,118 | 8,38,082 | 0,66,738 | 11,012,372 | 12,379,914 |
| Total liabilites and stockholders' equity | ¢ $1,439,996$ | ${ }_{\text {¢ } 1,400,200}$ | ¢ 1,357 , 4 a48 | ¢ 5.551,752 | ¢ 6.085 .906 | $\epsilon$ ¢,085,906 | (5.96,770 | ¢ 5.853.099 | ¢ 5,719,018 | C 5.566,603 | ¢ 5.586,003 | E 5,107,747 | ¢ 4,332,499 | ¢ 4.8959 .937 | ¢ 5.432,093 | ¢ $6,1212,230$ | द 7,247,870 | ¢ 8.460,720 | ¢ 9,737,478 | $\epsilon_{\text {¢ 11,000,639 }}$ | ${ }_{\text {E } 12,397,613}$ | ${ }_{\text {E } 13.003,154}$ |

Cash Outlook, Ratio Analysis, and Enterprise Value


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Market Outperform (Buy): The common stock of the company is expected to outperform a passive index comprised of all the common stock of companies within the same sector.
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| Distribution of Ratings Table as of October 25, 2019 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Ratings | Count | Percent | IB Service/Past 12 Months |  |
|  |  |  | Count | Percent |
| Buy | 374 | 92.80\% | 125 | 33.42\% |
| Neutral | 28 | 6.95\% | 3 | 10.71\% |
| Sell | 0 | 0.00\% | 0 | 0.00\% |
| Under Review | 1 | 0.25\% | 1 | 100.00\% |
| Total | 403 | 100\% | 129 | 32.01\% |

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