



# WeAdvise Capital – Volkswagen AG: Valuation and Strategic Review

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# Team Introduction



**Nima Jeyrani**

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Nima is in his final year at the University of Ottawa with a specialization in Finance. Over the past summer, he worked as a Analyst at HEXO in the Corporate Development team. He is also the leader of the student run investment fund at the Telfer School of Management. In his free time, Nima enjoys skiing, swimming and travel.

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#### Education

- University of Ottawa  
(Bachelor, 4<sup>th</sup> Year Finance)

#### Key Experiences

- HEXO, Corporate Development
  - EDC, Student Analyst
- Telfer Capital Fund (PML)



**Jonathan Khov**

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Jonathan is a fourth year finance student from the University of Ottawa. He previously completed a consulting internship at Deloitte in their Strategy & Operations practice and another internship at a search fund in Toronto. During his free time, he enjoys playing soccer, longboarding, and going hiking.

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#### Education

- University of Ottawa  
(Bachelor, 4<sup>th</sup> Year Finance)

#### Key Experiences

- Spruce Grove Capital Summer Analyst
- Deloitte S&O Consultant Intern
  - Telfer Capital Fund (PML)



**Jack Lau**

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Ottawa, Canada

Jack is in his final year at the University of Ottawa. He has previously completed a quantitative research analyst internship with Quandl and looking for new opportunity. During his free time, he enjoys poker, trading options, machine learning, and volunteering.

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#### Education

- University of Ottawa  
(Bachelor, 4<sup>th</sup> Year Finance)

#### Key Experiences

- Quandl, Quantitative Research Analyst
- Trading Central, Equity Analyst
  - Telfer Capital Fund (PM)



**Julia Magahey**

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Ottawa, Canada

Julia is in her third year at the University of Ottawa. Over the summer joined the Telfer Capital Fund, as student run investment fund. She recently joined as an analyst Mountain Hut Succession. In her spare time Julia enjoys teaching riding lessons as well as training for her first marathon.

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#### Education

- University of Ottawa  
(Bachelor, 3<sup>rd</sup> Year Finance)

#### Key Experiences

- Mountain Hut Succession Search Fund, Analyst
  - Telfer Capital Fund (Analyst)

# Executive Summary (Volkswagen Group)

**Volkswagen is well-positioned to pursue M&A, a merger of Ford may lead to significant operational and financial risks. An acquisition of Nissan will lead to a promising future for VW with expansions into the EV market**

1

## **Merger with Ford**

Propels VW into market leading position across North America

- Merger with Ford results in leading exposure at 17.8% of the American market share
- Entry into truck market with future potential for EV/AI adoption
- Acquisitions leads to significant development in AI capabilities
- Diversification of vehicle brands increases customer depth and reduces business risk

2

## **Acquisition of Nissan**

Expand EV portfolio and position VW for the future

- Acquisition of Nissan will position VW in a position to lead the EV market in coming years while also expanding into growing geographies
- Attractive time to acquire with the significant depressed stock price of Nissan
- Realize cost synergies with the global supply chain and manufacturing facilities of Nissan

3

## **Transaction Risks**

Financial and operational risks

- Profitability issues with Ford and significant debt load can damage the combined company in future years
- Cultural mismatch with Ford and VW may lead to a deterioration of both brands
- R-N-M alliance will lead to difficulties with acquiring Nissan

# Proposed Transaction Summary

The proposed merger with Ford has the potential to improve Volkswagen's core strategic objectives and gain an advantage over industry players that are equally evaluating business alternatives

**NA Expansion:** Merger with Ford results in leading exposure at 17.8% of the American market

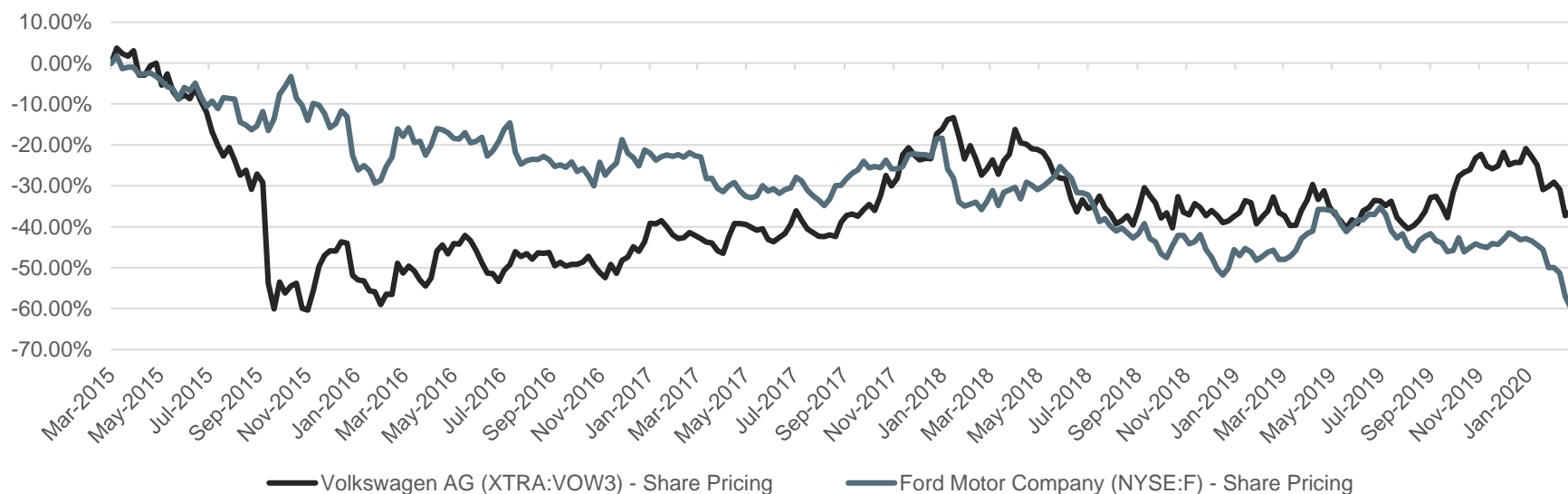
**Product Diversification:** Entry into truck market with future potential for EV/AI adoption

**AI Capabilities:** Significant AI improvement due to Ford ongoing investments

**Synergy Potential:** Drive production efficiencies and expertise in North American Market

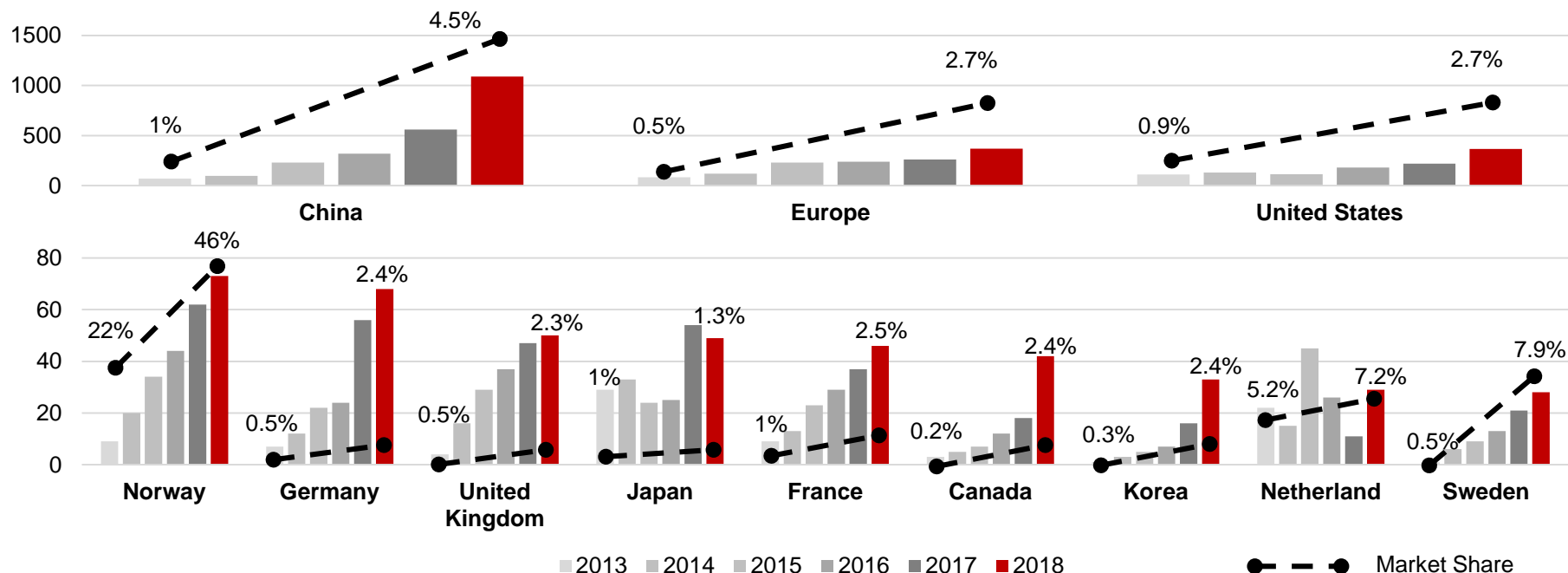
## Ford (FY2018)

|                  |        |                      |        |
|------------------|--------|----------------------|--------|
| <b>Sales</b>     | 156bn  | <b>EV</b>            | 159bn  |
| <b>EV/EBITDA</b> | 14.16x | <b>PE</b>            | 6x     |
| <b>EBITDA</b>    | 11bn   | <b>Debt / EBITDA</b> | 14.05x |
| <b>Cash</b>      | 22.3bn | <b>Total Debt</b>    | 156bn  |



# Electric Vehicles

## Global Electric Car Sales and Market Share



## The Race to Electrification

Electric mobility is expanding at a rapid pace, ~40% CAGR until 2030. The fast growth rate is influenced by the increasing new policies regarding CO2 emissions. This also incenses by benefit from zero- and low-emissions vehicles





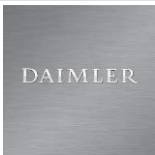


























China remains the world's largest electric car market follow by Europe and the United States. More important, European countries such as Norway, Sweden, Netherlands are already showing sign of switching point between Electric Cars and Gas Vehicles

In Europe and China several significant policy instruments were approved. This include minimum requirement for charging infrastructure in new and renovated buildings alongside with cash incentive supporting the roll-out of Electric Car



# Major Competitors

Major automakers are adopting various strategies in a race to launch a new generation of vehicles with advanced technological and electrical capabilities to secure their long-term growth

| Company  | Revenues  | Vehicles Sold 2019 | Key Brands   | Electric Capabilities   | Geography   |
|--|-----------|--------------------|--|---|---|
|    | \$282bn   | 9.69million        |      | <b>On Par</b> – All Toyota models expected to have EV versions by 2025                            | North America (35.3%)<br>Japan (24.4%)<br>Asia Pacific (17.7%)<br>Other (22.5%) |
|    | \$189bn   | 2.62 million       |      | <b>On Par</b> – Release of 10 EV models by 2022 while slowly electrifying the remaining portfolio | Europe (52%)<br>North America (23%)<br>Other (25%)                              |
|    | \$119bn   | 4.36 million       |    <br>                | <b>Lagging</b> - Lack of emphasis on electric vehicles  | North America (69%)<br>International (31%)                                      |
|   | \$155.9bn | 4.9 million        |    | <b>On Par</b> – Ford Fusion in delivery with investments in EV trucks                             | Americas (70.4%)<br>Europe (10.7%)<br>Other (18.9%)                             |
|  | \$104.1bn | 5.6 million        |      | <b>On Par</b> – Leaf leading by volume, but growing competition in entry EVs                      | Japan (46.5%)<br>North America (16.5%)<br>Europe (14.3%)<br>Asia (11.4%)        |
|  | \$273.6bn | 10.33 million      |    <br>   | <b>On Par</b> – 70 EV models expected by 2030   | Europe (61%)<br>International (39%)   |

# Overview of Strategic Alternatives

**Strategic alternatives present opportunities for Volkswagen to execute on their strategy and pursue transformation towards electrification and digitization of their automotive vehicles**

| Alternatives                       | Overview   | Approval Risk | AI Development | EV Capabilities | Risk |
|------------------------------------|--|---------------|----------------|-----------------|------|
| Make no Acquisition                | <ul style="list-style-type: none"> <li>Allow Volkswagen to carry on with its existing strategy</li> <li>Continue to grow organically in the EV market</li> </ul>   |               |                |                 |      |
| Merge with Ford                    | <ul style="list-style-type: none"> <li>Create the largest automaker in the world, leading in all major geographies</li> </ul>  |               |                |                 |      |
| Aggressively Pursue EV Development | <ul style="list-style-type: none"> <li>Increase Capex spending over next several years</li> <li>Develop in-house strategic and technological advantages</li> </ul>   |               |                |                 |      |
| Acquire Nissan                     | <ul style="list-style-type: none"> <li>Create a leading EV automaker spread across all geographies</li> <li>Use Nissan's existing EV infrastructure and expertise to propel expansion into the market</li> </ul> |               |                |                 |      |

## AI Development

Automotive Software  
Self-Driving

Robot Cars  
Machine Learning

## EV Capabilities

Battery Supply  
Regulatory Environment

Vehicle Types  
Brand Power

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Battery Supply  
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Vehicle Types  
Brand Power



# Ford Merger Rationale

**Merging with Ford provides an opportunity to achieve grow scale and accelerate Volkswagen's strategic objectives**

## Geographic Expansion

- Merging with Ford to capture 17.8% of the American market
- Merger will create a European-American conglomerate, able to rival Fiat-Peugeot-Renault

## Portfolio Diversification

- Diversify revenue streams by access to Ford's dominating presence in the trucking segment
- Leverage Ford's AI technologies and further enhance the partnership in Argo.AI

## AI Capabilities

- Significant opportunity for autonomous technology to compete in a highly competitive market
- Execute on mandate to become an automotive software company

## Revenue & Cost Synergies

- Adapting the MEB platform will allow for greater economies of scale across many vehicle bodies
- Enhance production factories and distribution networks allowing "cheaper" reach to consumers
- Access Ford's manufacturing AI systems to enhance inventory control and quality assurance for Volkswagen

# Rationale #1: Geographic Expansion

Despite an increase in global reach, expansion into North America trends do not line up with Volkswagen's current strategy

## Merger Rationale

- Merging with Ford will increase Volkswagen's exposure in the United States allowing access to new customer segments
- Increased number of manufacturing facilities, shifting from 4 current locations to 25 locations
- European-American conglomerate of Volkswagen and Ford will be a significant threat to the FCAU merger

## Merger Downsides

### Opportunity Costs

**Rapidly Growing Markets:** North America EV adoption has been slow and Ford has been losing market share from 19.9% to 14%

- Focus on China: EV tax incentives and highest proportion of fast charging stations

**Limited Electrification:** Ford has limited development into the electrification of their vehicles – merger does not futureproof VW

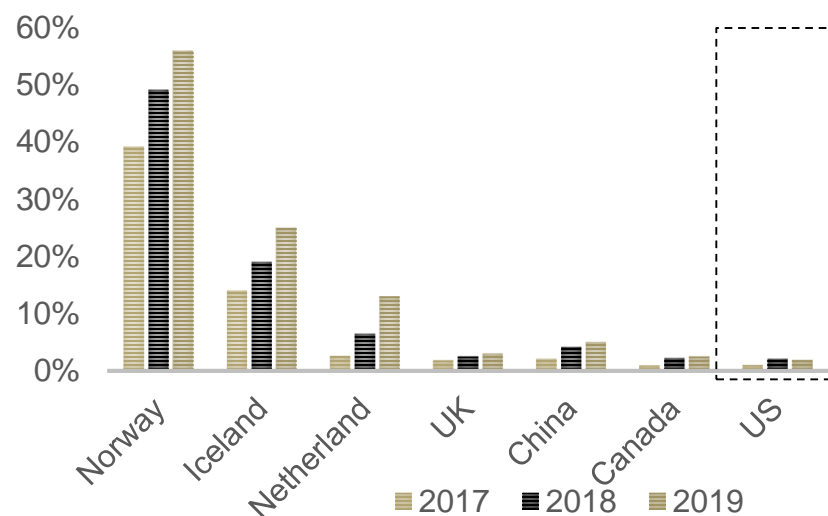
**Investment Costs:** \$41.2bn investment can be prioritized on EV and AI investments

### Electrification Infrastructure

**Lack of infrastructure:** Range anxiety in North America lags behind in charging infrastructure coupled with range anxiety

**Electric Vehicle Partnership:** Existing partnership with Ford for EV architecture is focused on European market over larger and less established US Market

### Electric Vehicle Adoption Rate



# Rationale #2: Lower Business Risk Through Product Diversification

With the already well diversified product portfolio from Volkswagen focused on EV, the merger into Ford's truck portfolio will yield limited benefits for Volkswagen's focus on future proofing their vehicle line-up

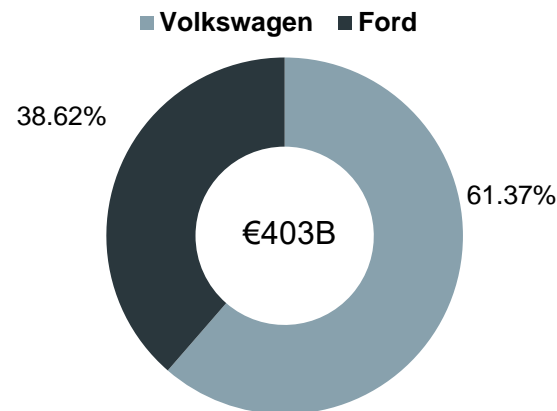
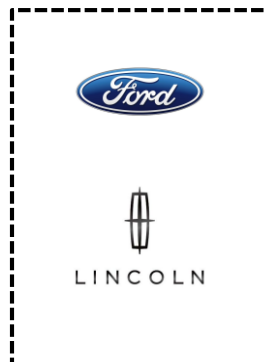
## Merger Rationale

- Expansion into Ford's industry leading truck portfolio and entry into market with future EV and AI potential
- Truck sales in the US maintain strength despite lower American sales volume
- Access into higher margin American luxury brands through Lincoln

### Volkswagen Brand Portfolio



### Ford Brand Portfolio



## Merger Downsides

- Volkswagen and Ford have pre-existing joint venture relationship on commercial vans and pickups
- Volkswagen previously tried to spin off its luxury Lamborghini to maximizing shareholder's value, as premium models tend to trade at significantly higher multiples (3.4x revenue and 15x EBITDA vs. peers average of 1x revenue and 10x EBITDA).
- Volkswagen currently has well diversified product mix, the upside through expanding to trucks are limited

# Rationale # 3: Pooled Artificial Intelligence Knowledge

Acquisition increases access to Ford's AI portfolio, yet VW is already heavily invested in the most promising technology with Argo AI

## Merger Rationale

- Ford had committed to spending \$4B over the next three years and plans to sell autonomous cars by 2021
- Enhances the existing stake in Argo. AI and opportunity to include strategic partnerships with Walmart and Amazon
- Achieve industry leading status against competitors including tech companies for autonomous capabilities

## Merger Downsides



### Current Stake

- Volkswagen is already involved in Ford's most promising A.I initiatives: **Argo. AI**
  - Contributing \$2.6B → ~1.5x the amount of Ford
- Volkswagen will be purchasing \$500mm shares from Ford over the next three years

The likelihood of Volkswagen accessing any significant new AI technologies is small

### Current Partnerships

- Volkswagen has spun off its own subsidiary-VWAT with the goal of robot cargo and taxis
- Current partnership with Microsoft to develop: Volkswagen IOS

Volkswagen already has many strategic initiatives dedicated to AI and autonomous development

### Take on Debt Burden

Current Balance:  
14.25B



New Balance:  
27.15B

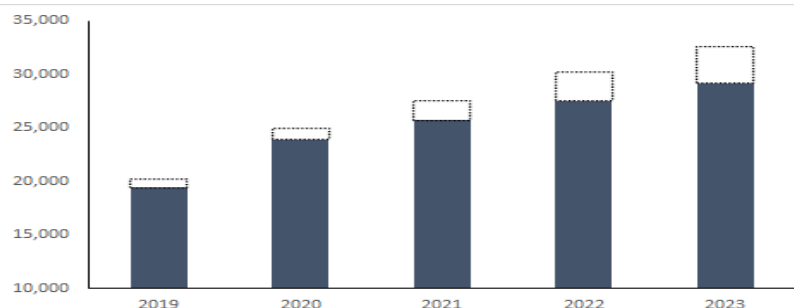
- Merging with Ford, requires Volkswagen to take on Ford's debt
  - Increase of ~12.9B

With potential litigation fees threatening, Volkswagen needs to remain in optimal financial position

# Rationale #4: Potential Revenue and Cost Synergies

**Significant synergies are unlikely to materialize due to the different brand culture and existing joint venture agreements with Ford**

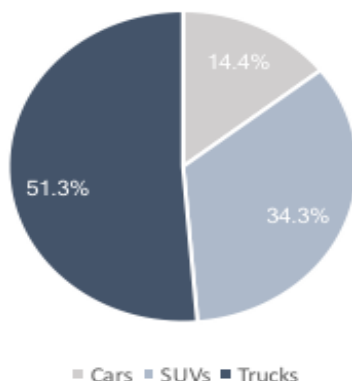
## Merger Rationale



- Expecting 780M (3.8%) in EBITDA improvements during the first year, increasing to 3.4B (10.4%) by 2023 after complete integration
- Cost synergies will be realized through savings in:
  1. G&A
  2. Marketing
  3. Distribution

## Merger Downsides

### Ford Product Portfolio



### Limited Remaining Synergies

- Ford and Volkswagen both appeal to significantly different demographics and car owners; limited brand synergy
- Incremental synergy potential is lower due to existing partnership agreements
- Integration risk is high due to different strategic objectives
- Margin on Ford vehicles falls short relative to VW luxury

# Ford – VW Merger Model

## Key Merger Assumptions

### Price Consideration

- 25% equity premium provides a healthy consideration for the shareholders of Ford at a purchase price of \$6.89 per share.
- Share price is in line with the intrinsic value of Ford while still being a reasonable for Volkswagen

### Synergy Consideration

- 0.5% improvements to EBITDA on a pro-forma basis
- No revenue synergies will arise from the merger and assume a conservative ramp up on synergies with the full value being realized in 2023

### Financing Consideration

- 80% of the acquisition will be funded through equity with the remaining 20% through cash
- External funding requirements for the acquisition will be \$35 billion and 210 million shares of Volkswagen will be issued - No debt will be required for the acquisition

## Accretion/Dilution

### Key Outputs:

|                    | 2019  | 2020  | 2021  | 2022  | 2023  |
|--------------------|-------|-------|-------|-------|-------|
| % Change in EPS    | (23%) | (12%) | (4%)  | 2%    | 7%    |
| EBITDA Improvement | 780   | 996   | 1,834 | 2,706 | 3,403 |

## Transaction Sensitivity

|               |     | Premium Paid |        |        |         |         |
|---------------|-----|--------------|--------|--------|---------|---------|
|               |     | 10%          | 20%    | 30%    | 40%     | 50%     |
| % Equity Paid | 90% | (4.7)%       | (6.7)% | (8.6)% | (10.5)% | (12.2)% |
|               | 80% | (1.5)%       | (3.4)% | (5.2)% | (6.9)%  | (8.6)%  |
|               | 70% | 2.0%         | .2%    | (1.5)% | (3.2)%  | (4.9)%  |
|               | 60% | 5.7%         | 4.0%   | 2.3%   | .6%     | (1.1)%  |
|               | 50% | 9.6%         | 8.1%   | 6.6%   | 5.2%    | 3.8%    |



# Recommendation: Acquire Nissan

**Nissan's access to a larger Asian market in addition to advancing capabilities in EV and AI are complementary to VW's growth strategy**

## Market Timing

- Nissan stock price down ~70% over the past five years
- Situation with Ghosin has weakened R-N-M alliance resulting in attractive bid price

## Potential Synergies

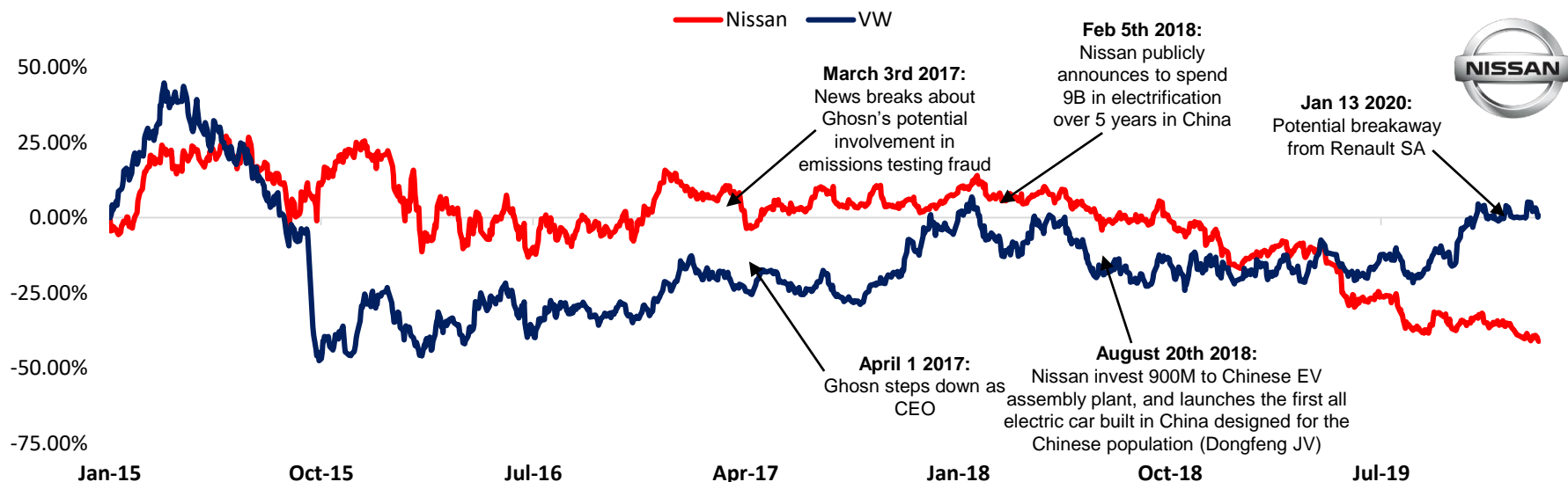
- ~1.25-2.5% cost synergies due to shared manufacturing and leveraging economies of scale
- Lower integration costs due to culture and strategic match with Volkswagen

## Future Oriented Product Portfolio

- Nissan Leaf established EV brand in North America and growing presence across Asia
- Investments into AI technology complement Volkswagen's focus on automotive software

# Rationale #1: Great Entry Time for Acquisition

Nissan's current depressed stock price means it is the optimal time for Volkswagen to acquire



## Rationale

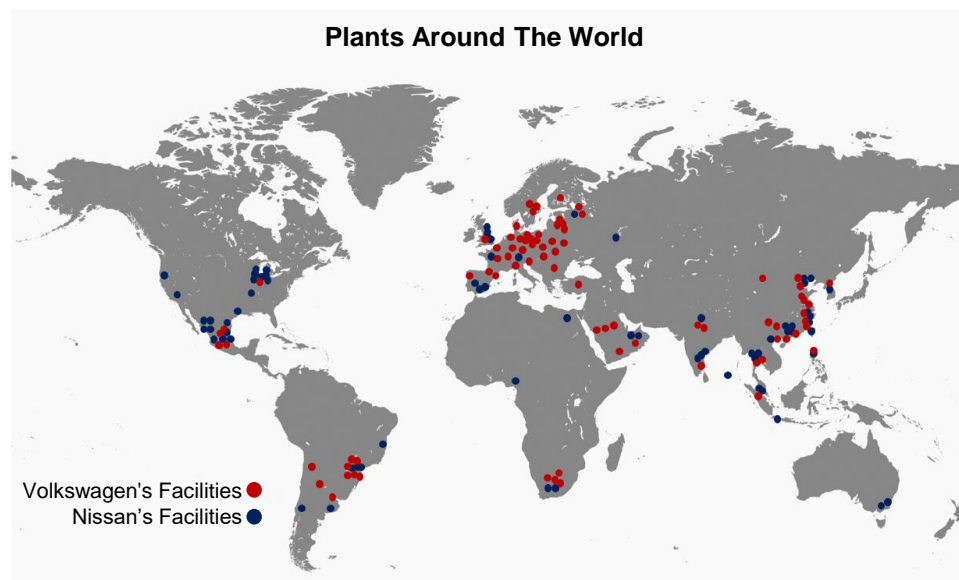
- Relative size and the slow down in auto industry's business cycle provides a perfect acquisition in both timing and target
- Deteriorating relationship between the RNM alliance and Fiat's proposed merger gives an optimal opportunity for an acquisition of Nissan
- Both VW and Nissan have similar presence in NA, while Nissan has stronger a presence in Asia, while VW dominates Europe

## Risks

- Potential shareholder resistance may arise as Renault currently holds a 43.4% voting stake in Nissan, however this recommendation could help alleviate the cash strain Renault is currently facing
- The current alliance structure between the Nissan - Mitsubishi - Renault creates a trickier and more complex landscape for integration, however thanks to successful current JVs, Volkswagen understands how to navigate these risks and how to mitigate their impact

# Rationale #2: Cost Synergies

## Acquiring Nissan increases Volkswagen's access and utilization of manufacturing facilities



### Key Facts & Statistics

#### Volkswagen:

- €111B in PP&E as of 2019 Q3
- Automotive EBITDA Margin of 15.4% as of 2018
- VW operates ~122 production plants in the globe, where 71 of them are located in Europe, 33 in Asian, 5 in North America, 9 in South America and 4 in Africa

#### Nissan:

- €43.8B in PP&E as of 2019 Q3
  - Automotive EBITDA Margin of 12.3% as of 2018
  - VW operates ~41 production plants in the globe, where 5 of them are located in Europe, 29 in Asian, 7 in North America, 4 in South America and 3 in Africa
- **Estimated Cost Synergy: ~1.25 – 2.50%**

### Key Takeaway

- RNM reported a total of €5.7B in synergies through their strategic alliance relationship
- Volkswagen and Nissan both share a similar sub segment of the automotive industry, and Volkswagen's expertise can enhance Nissan's profitability and reach
- Volkswagen will be able to expand its brand portfolio to include Nissan, Infiniti and Datsun, alongside to further its presence in emerging market

# Rationale #3: Expanded EV Portfolio

By acquiring Nissan, Volkswagen gains access to Nissan's EV Portfolio.

## Global Plug-in Electric Vehicle Market Share in 2019



### Pre-Acquisition

|                   |              |
|-------------------|--------------|
| Tesla             | 16.64%       |
| BYD               | 10.39%       |
| BAIC              | 7.25%        |
| SAIC              | 6.23%        |
| BMW               | 5.83%        |
| <b>Volkswagen</b> | <b>3.81%</b> |
| <b>Nissan</b>     | <b>3.64%</b> |
| Geely             | 3.43%        |
| Hyundai           | 3.30%        |
| Toyota            | 2.50%        |



### Post-Acquisition

|                            |              |
|----------------------------|--------------|
| Tesla                      | 16.64%       |
| BYD                        | 10.39%       |
| <b>Volkswagen + Nissan</b> | <b>7.45%</b> |
| BAIC                       | 7.25%        |
| SAIC                       | 6.23%        |
| BMW                        | 5.83%        |
| Geely                      | 3.43%        |
| Hyundai                    | 3.30%        |
| Toyota                     | 2.50%        |

## Rationale

- The trend in the auto-industry is to focus on increasing production in EV, until recently Volkswagen was lagging, and had limited effort into making a pivot towards their business model.
- Previously, Nissan had a great success in the EV market with its Leaf model; however, due to lack of innovation efforts the Nissan Leaf did not reach its full potential. With Volkswagen strong intention of investing around € 33B in electric mobility, both company will finally have a strong foothold to compete against other EV competitors.
- By combining the EV's portfolio for both Volkswagen and Nissan, Volkswagen's EV presence will doubled as well as Volkswagen will be able to leverage its recent afford in acquisition of many EV battery companies to improve both companies EV presence.
- Combined, they are aimed to take over BYD and catch up with the competition against Tesla.

# Conclusion

## Recommendation To Merge With Nissan And Engage Us, WeAdvise Capital, As An Advisor

### Why Hire WeAdvise Capital

#### Expertise in Auto

- Our experience in the auto industry allow us to help you best position yourself with the growth of electrification and autonomous driving.

#### Client Focus

- WeAdvise Capital will always try our best to ensure that you are on track to maximize your shareholders' values

#### Long Term Relationship Focus

- WeAdvise Capital tried our best to aim for a ever lasting long term relationship with all our clients. Therefore, it would make our negotiation with the target seamlessly.

**We tried our best to put your on track to succeed**



# Appendix D: Model Output Templates

**NIBC 2020 Global Competition | First Round**



# Merger Model Outputs | (1/2)

| Key Results                  | 2019    | 2020    | 2021   | 2022   | 2023   |
|------------------------------|---------|---------|--------|--------|--------|
| Accretion / (dilution)       | (22.9)% | (12.0)% | (4.3)% | 2.0%   | 6.6%   |
| Proforma Net Debt / EBITDA   | 0.7 x   | 2.0 x   | 2.3 x  | 2.3 x  | 2.3 x  |
| Acquirer Net Debt / EBITDA   | 1.8 x   | 1.8 x   | 1.8 x  | 1.8 x  | 1.8 x  |
| EBITDA Improvement           | 780     | 996     | 1,834  | 2,706  | 3,403  |
| PF EBITDA before Synergies   | 19,422  | 23,939  | 25,733 | 27,513 | 29,162 |
| Incremental Interest Expense | -       | -       | -      | -      | -      |

| Enterprise Value                                   | VG       | Ford    | @ Offer |
|--|----------|---------|---------|
| Current Share Price                                | \$133.34 | \$5.52  | \$5.52  |
| Offer Price  | N/A      | N/A     | \$6.89  |
| Equity Value                                       | 66,843   | 22,084  | 27,605  |
| Debt (Automotive)                                  | 14,247   | 12,932  | 12,932  |
| Cash & Equivalent (Automotive) [input as negative] | (22,274) | (6,219) | (6,219) |
| Enterprise Value (Automotive Method)               | 58,816   | 28,797  | 34,318  |
| EBITDA 2019E                                       | 30,234   | 10,389  | 10,389  |
| EV/EBITDA 2019E                                    | 1.8 x    | 2.4 x   | 2.9 x   |

| Pro Forma Share Issuance                 |        |
|--|--------|
| Acquirer Stock Consideration             | 27,954 |
| Acquirer Diluted Shares Outstanding (mm) | 501    |
| New Acquirer Shares Issued (mm)          | 210    |
| PF Diluted Shares Outstanding (m)        | 711    |

|                                  |               |
|----------------------------------|---------------|
| PF Ownership (Acquirer / Target) | 70.5% / 29.5% |
|----------------------------------|---------------|

# Merger Model Outputs | (2/2)

(\$ millions)

## Financing Assumptions

|                            |        |
|----------------------------|--------|
| % Stock Consideration      | 80.0%  |
| Premium Paid               | 25.0%  |
| Transaction Costs          | 1.5%   |
| Acquirer Cash Balance Used | 10,000 |

## Synergy Assumptions (% of Target Sales)

|                           |      |
|---------------------------|------|
| 1) G&A Synergy            | 0.5% |
| 2) Marketing Synergy      | 0.5% |
| 3) Transportation Synergy | 0.5% |
| 4) Production Synergy     | 0.5% |
| 5) Revenue Synergy        | 0.0% |
| 6) Revenue Synergy        | 0.0% |

## Sources

|                              |               |               |
|------------------------------|---------------|---------------|
| Stock Issued                 | 27,954        | 80.0%         |
| New Debt                     | -             | 0.0%          |
| Cash from Acquirer           | 6,989         | 20.0%         |
| <b>External Sources</b>      | <b>34,943</b> | <b>100.0%</b> |
| Cash Available at Target     | 6,219         |               |
| <b>Total Funding Sources</b> | <b>41,161</b> |               |

## Uses

|                             |               |               |
|-----------------------------|---------------|---------------|
| Equity Market Value         | 22,084        | 53.7%         |
| Equity Premium Paid         | 25% 5,521     | 13.4%         |
| Repayment of Debt           | 12,932        | 31.4%         |
| Transaction Fees            | 624           | 1.5%          |
| <b>Funding Requirements</b> | <b>41,161</b> | <b>100.0%</b> |

# Merger Model | Assumptions (1/1)

| Key Assumptions            |              |                                      |
|----------------------------|--------------|--------------------------------------|
| Transaction Assumptions    |              | Comments                             |
| % Purchased                | 100.0%       | Assuming all of Ford will be Acquire |
| % Stock Consideration      | 80.0%        | Minimize debt load                   |
| Premium Paid               | 25.0%        | Healthy premium for Ford             |
| Transaction Costs          | 1.5%         | Standard Fee                         |
| Acquirer Cash Balance Used | 10,000       | Significant VW cash balance          |
| Transaction close          | 01-Jun-19    |                                      |
| Synergy Assumptions        |              | Comments                             |
| Run-rate Synergies         | % AMC Sales* |                                      |
| 1) G&A Synergy             | 0.5%         | Overhead reduction                   |
| 2) Marketing Synergy       | 0.5%         | Combined marketing efforts           |
| 3) Transportation Synergy  | 0.5%         | increased facilities                 |
| 4) Production Synergy      | 0.5%         | increased facilities                 |
| 5) Revenue Synergy         | 0.0%         | Will not generate synergy            |
| 6) Revenue Synergy         | 0.0%         | Will not generate synergy            |