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# IHS END MARKET UPDATE -EMBEDDED

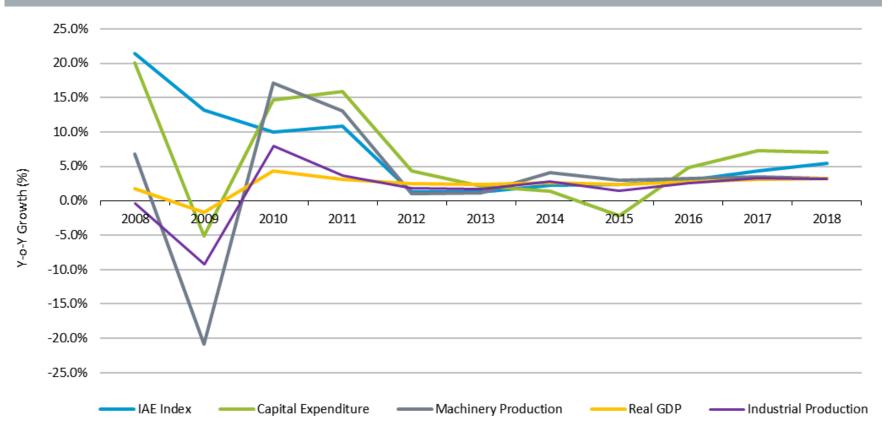
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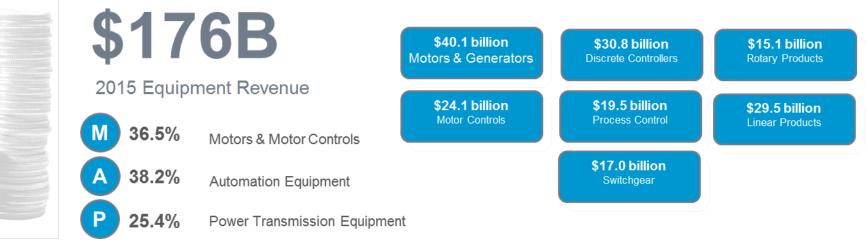
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## Automation market vs. other indices

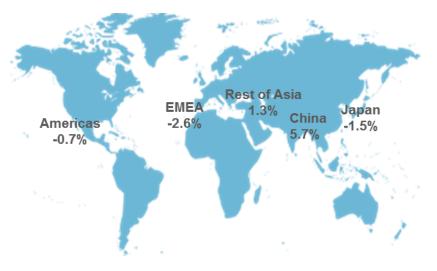
#### Major indices comparison

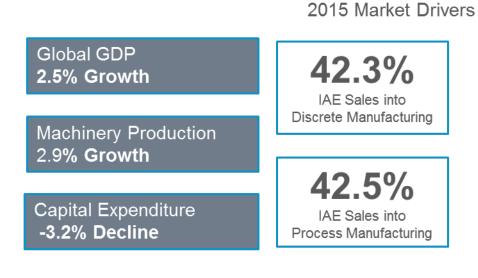


## 2015 summary – Industrial automation



#### 2015 Regional Sales Growth

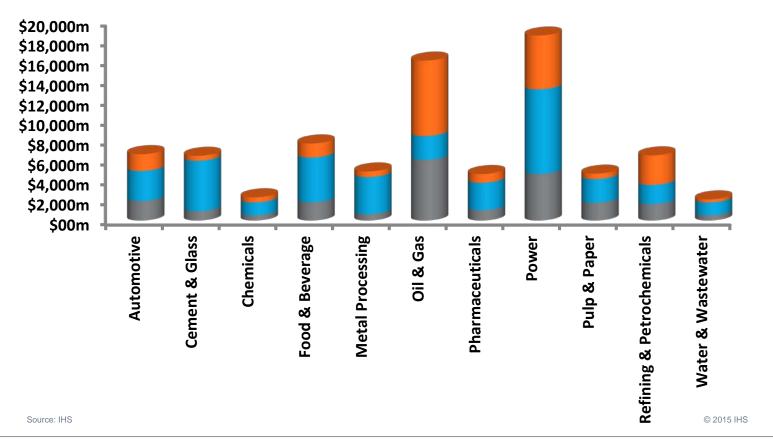




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## Process markets pulling down industrial automation growth

 Capex spend on automation equipment is expected to decline 3.2% in 2015, pulling down overall growth of in the market.

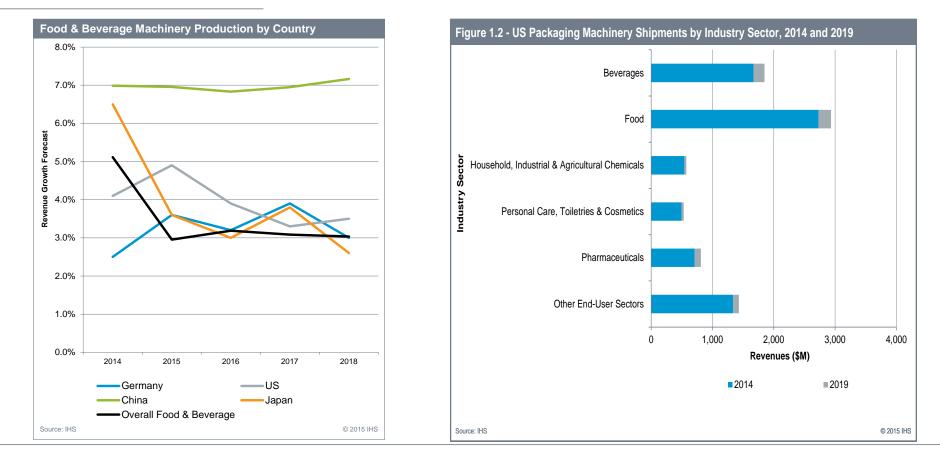


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## Typically high growth machinery markets posting slower growth

• Food & Beverage & Packaging Machinery

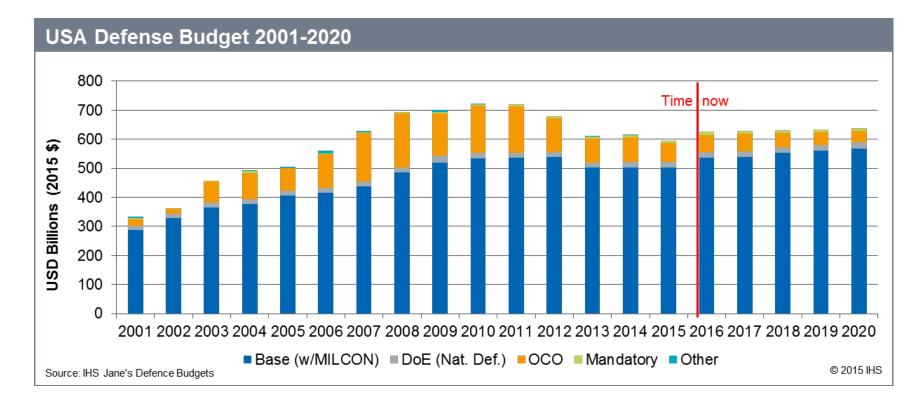
The growth in population across much of the US has stalled and in some cases is decreasing slowly. Growth of packaging machinery and food & beverage will continue in regions with strong population growth or increasing household income, but is slower due to general economic slowing.



## Industrial automation – Challenges and opportunities

- Challenges
  - Collapsing commodity demand
  - Overcapacity continues from 2013
  - Stock market correction; impact on industry
  - China slowdown
  - Digitalization cyber security, software, integration
- Opportunities
  - Robotics as low cost labour alternative
  - High-tech sectors continue to perform well
  - Smart manufacturing (IIoT) move to services and software
  - Decentralized intelligence local and automated decision making

## US defense budget 20-year profile



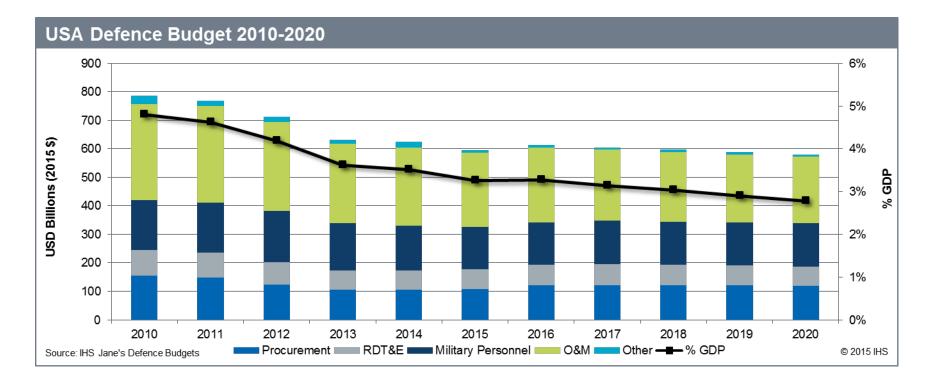
- DoD Budget has a 1.4% 5-Yr CAGR overall
- Base Budget 5-Yr CAGR is 2.5%, but OCO CAGR is -10%

## US DoD Budget > USD8.6 Trillion Since 9/11, but OCO Is Decreasing

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## **US defense budget profile**

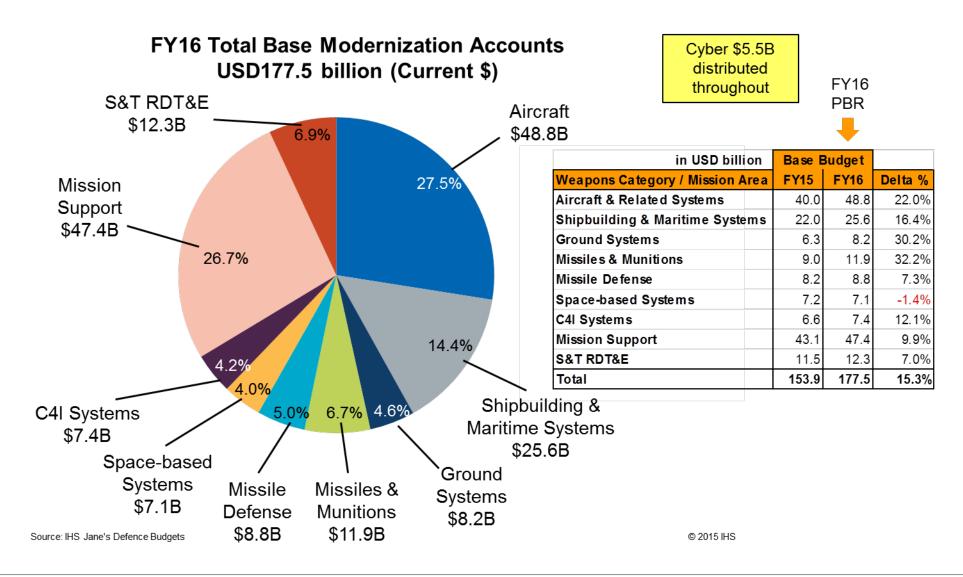


- Defense % of GDP decreasing: 4.8% in FY10 → 3.0% in FY18
- USD172 billion FY14 investment smallest in a decade result of sequester
- Investment increasing y-o-y from FY14 to FY19 (32.6%) at 1.1% CAGR

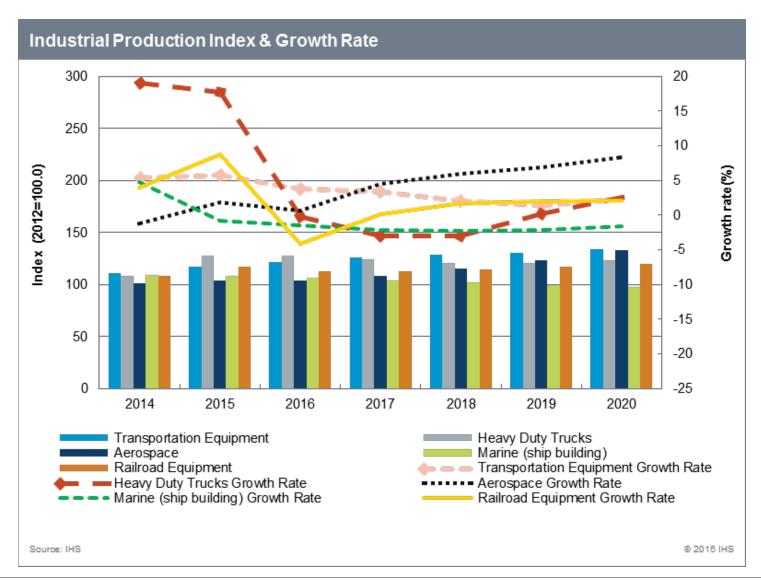
### US Defence Budget Essentially Flat from FY13 to FY18 in Real Terms



## **DoD budget by mission category**



## **Transportation – Still a hot opportunity?**



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## **Summary and questions**

- Challenging MP and CAPEX environment; opportunity with smart manufacturing
- DoD budget has a 1.4% 5-Yr CAGR overall (although declining OCO)
- Good FY16 growth in military ground systems, missiles & munitions and aircraft spending; \$13.6 billion combined increase from FY15
- Industrial production declining marine index from 2016 to 2020; growth percentage for aerospace increasing to 2020 (flat spot in 2016)

# Questions....Thank you!

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