



## Welcome to the IFR CEO Round Table

20 June 2018 Munich

## Schedule

### **Welcoming and presentation of the participants of the IFR CEO Round Table**

Gudrun Litzenberger, IFR General Secretary

### **Preview on World Robotics Industrial Robots 2018**

Junji J. Tsuda, IFR President

### **Discussion on Robots and AI: Vision and Reality**

### **Get together and personal interviews with the participants**

# International Federation of Robotics

Representing the global robotics industry



- Robotics turnover 2017: about \$50 billion
- More than 50 members:
  - National robot associations
  - R&D institutes
  - Robot suppliers
  - Integrators
- Sponsor of the annual International Symposium on Robotics (ISR)
- Co-sponsor of the IERA Award
- Primary resource for world-wide data on use of robotics – IFR Statistical Department



## Speakers on the Panel – Robot Suppliers



### **Dr. Kiyonori Inaba**

Director Executive  
Managing Officer, General  
Manager

ROBOT Business Division,  
FANUC CORPORATION  
Japan



### **Stefan Lampa**

CEO  
KUKA Industries  
Germany



### **Per Vegard Nersth**

Group Senior Vice President  
ABB  
Switzerland

## Speakers on the Panel:

### Expert



### **Professor Dr. Bruno Siciliano**

Director of ICAROS and Coordinator of  
the PRISMALab

University of Naples Federico II,  
Italy

### Robot user



### **Dr. Markus Kueckelhaus**

Vice President

Innovations & Trend Research

DHL  
Germany

## Presentation of WR Data



**Junji J. Tsuda**

IFR President  
Representative Director Chairman of the Board

Yaskawa  
Japan

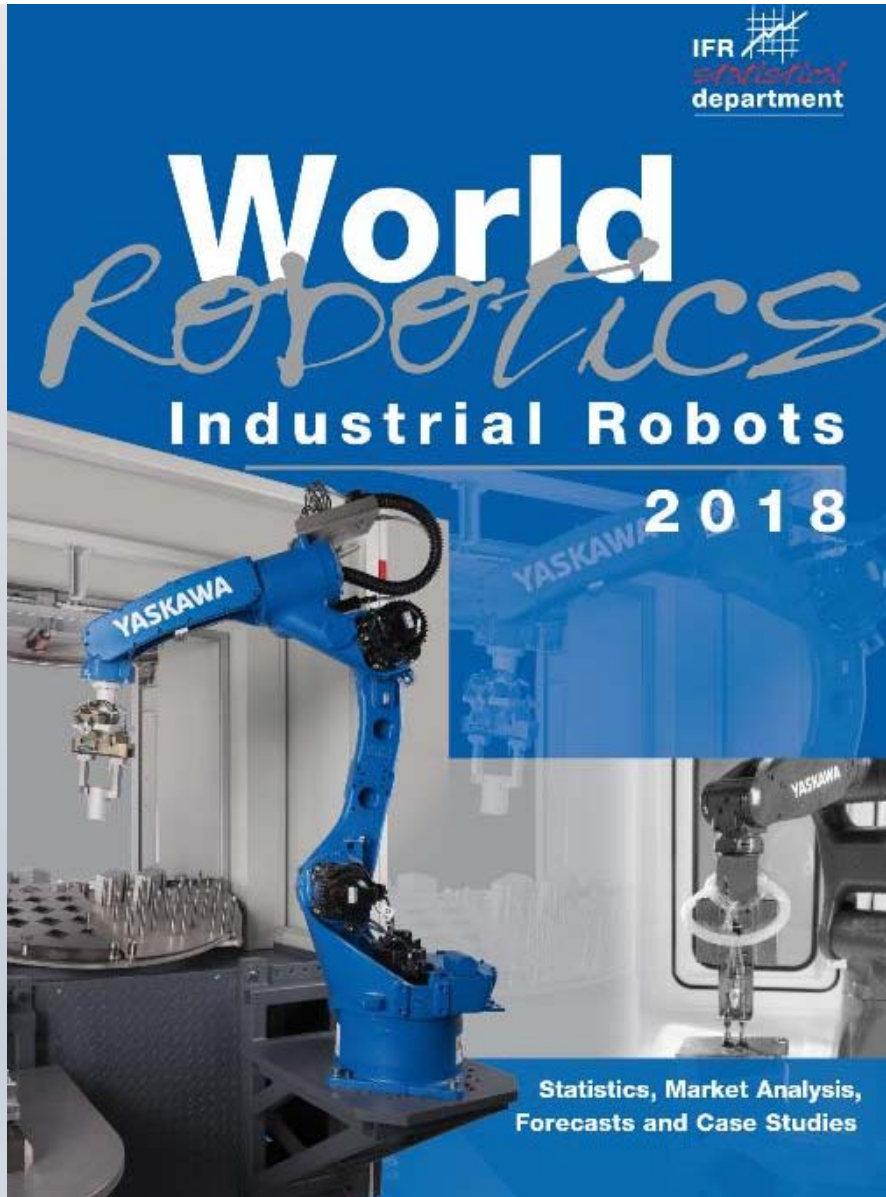
## Moderator



**Ken Fouhy**

Moderator, Editor in Chief,  
Innovations & Trend Research

VDI nachrichten  
Germany



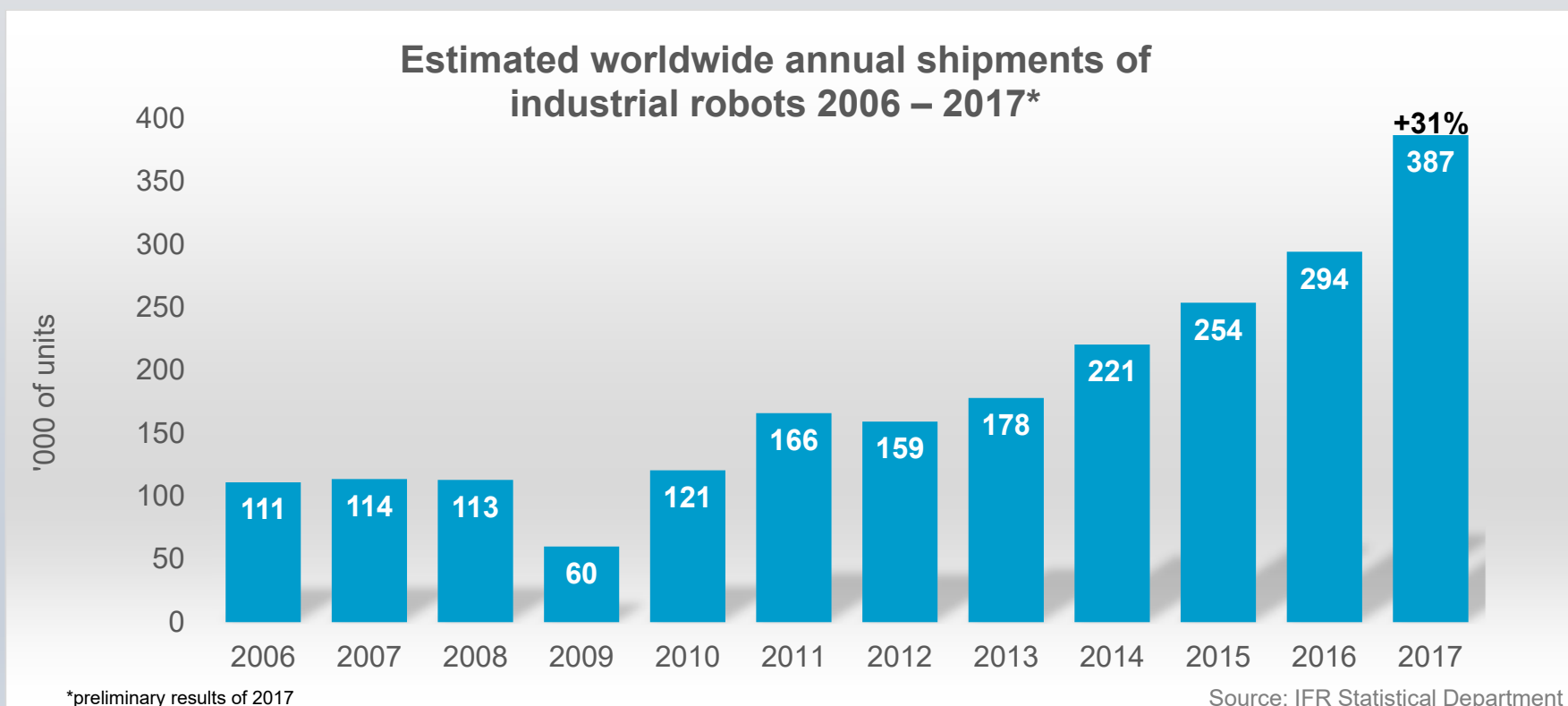
## Preview on World Robotics 2018



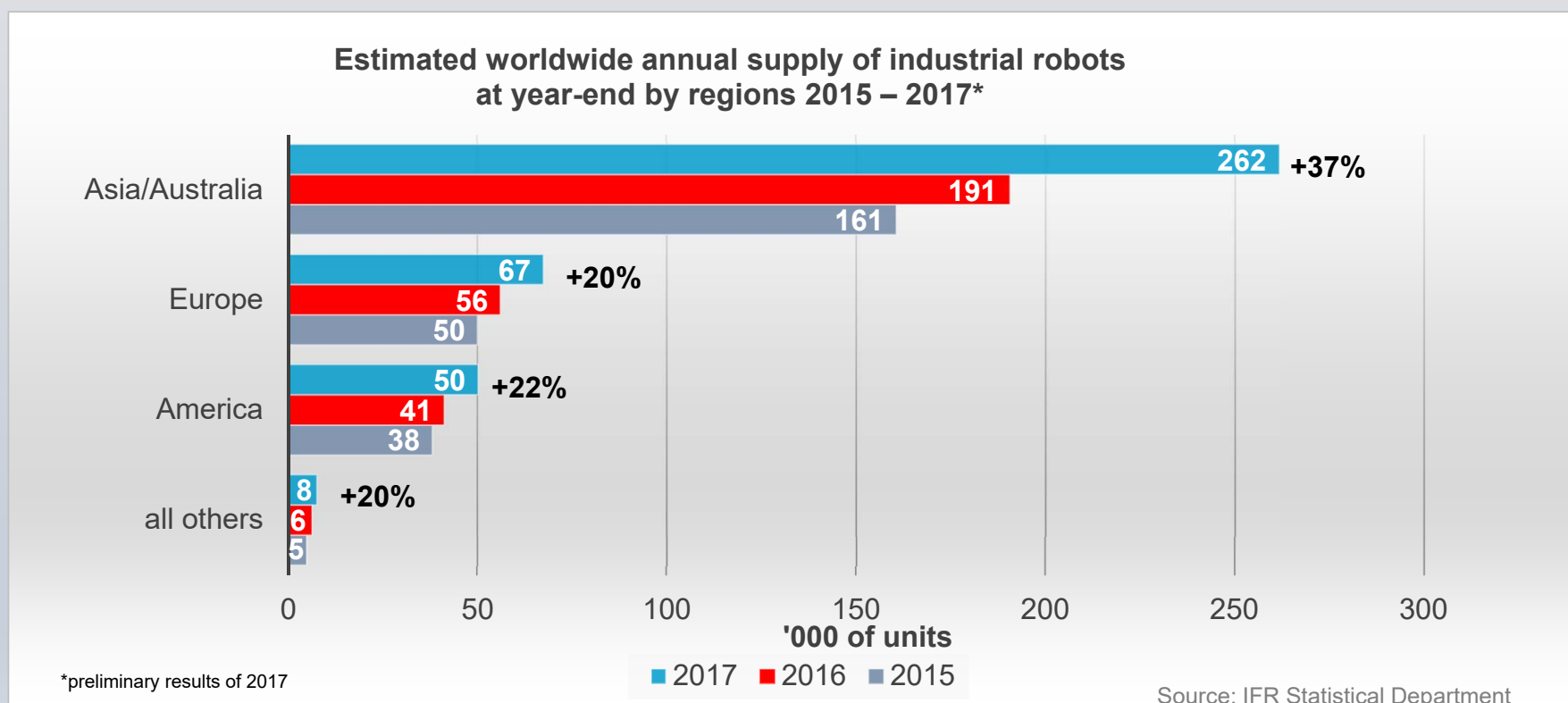
### Industrial Robots 2017

- Global installations
- Regions
- Main Markets
- Main Customers
- Challenges of the Robotics Industry

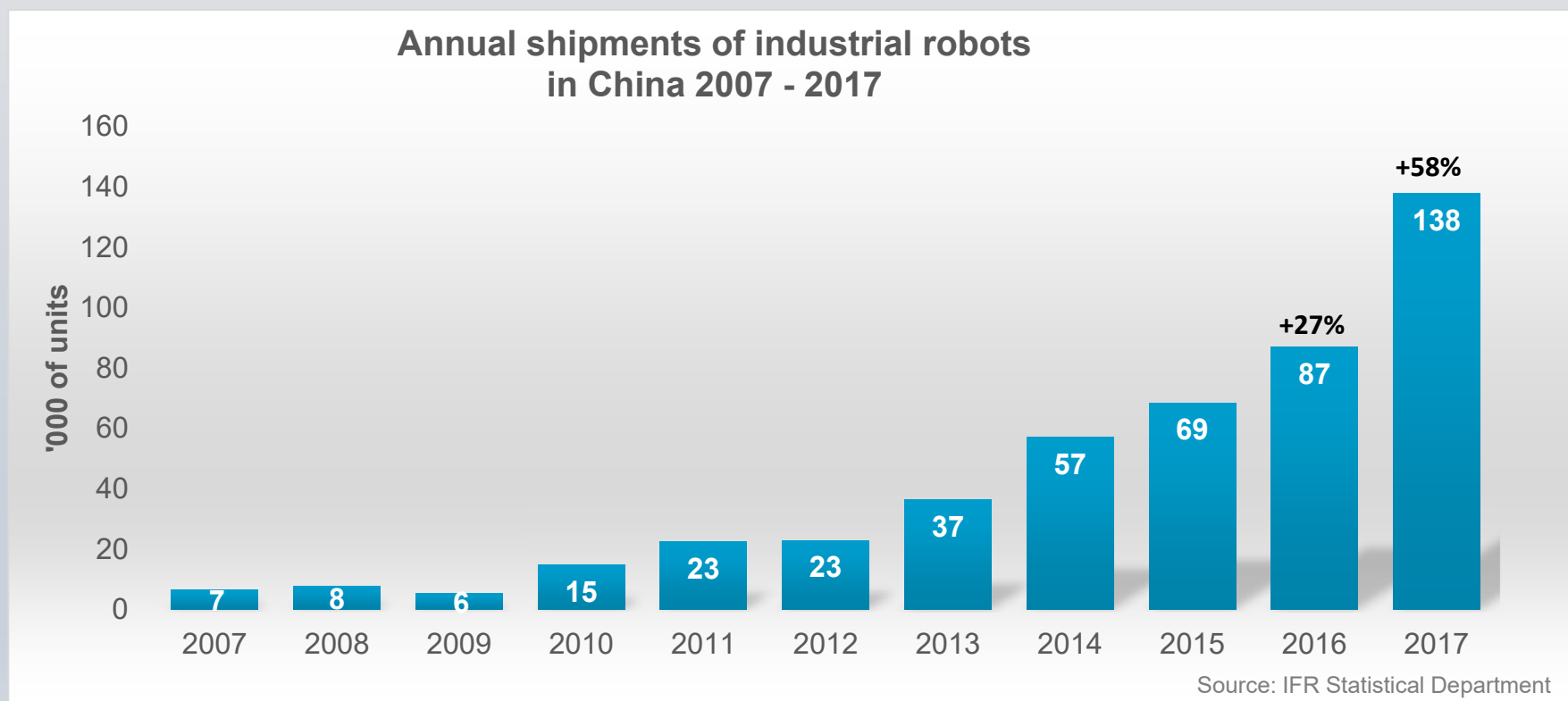
## 2017: record growth of industrial robots



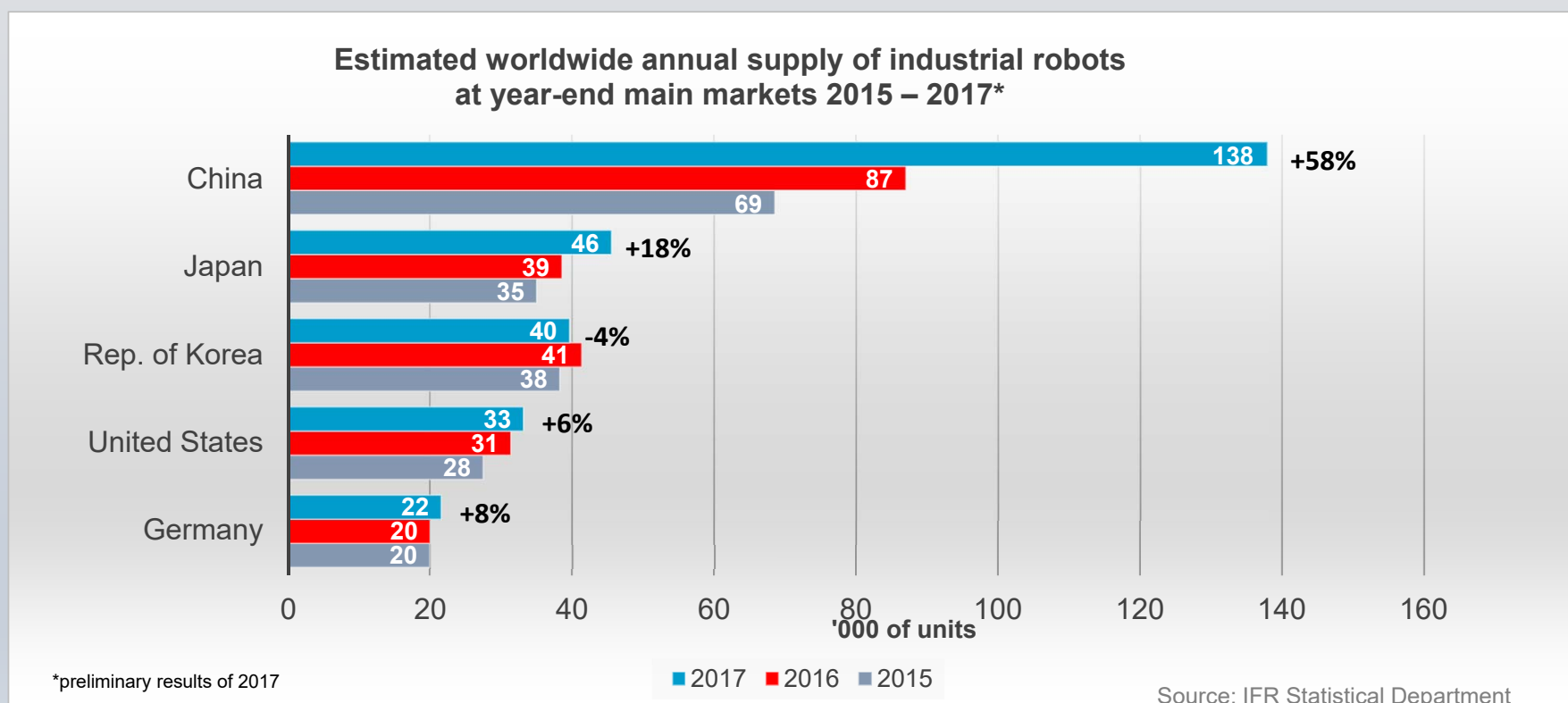
## 2017: considerable increase in all regions



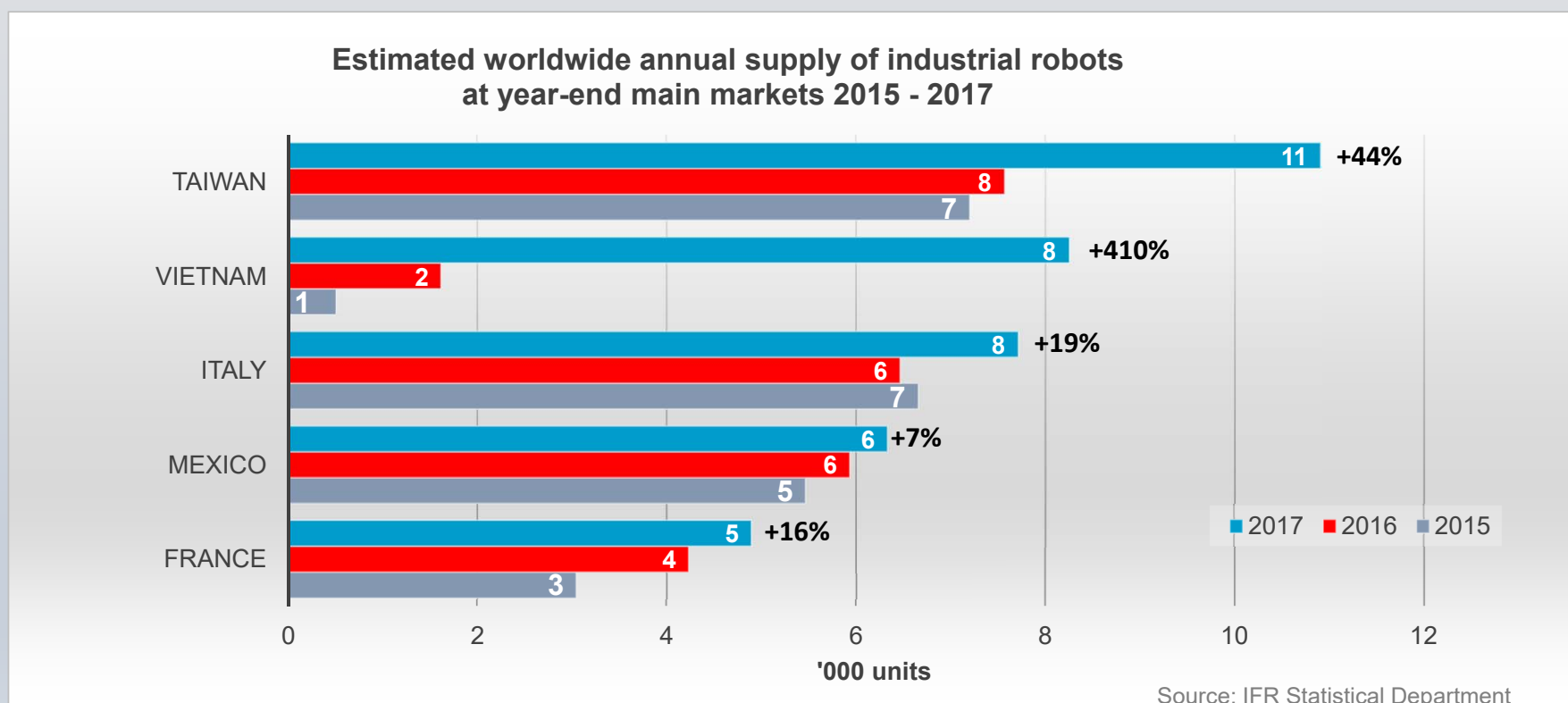
## China: Main driver of growth in 2017



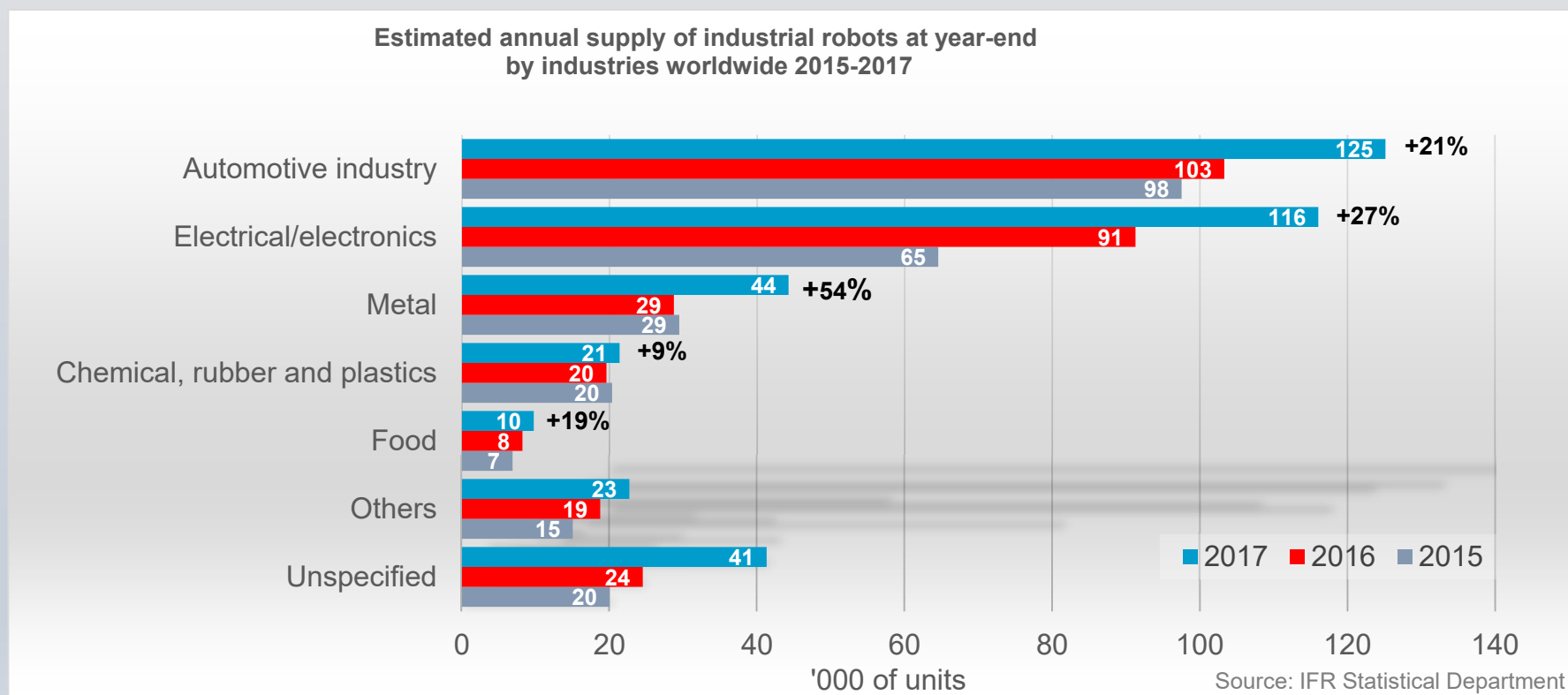
## Top 5 countries represent 72% of total sales in 2017



## Vietnam now 7th largest destination



## 2017: electronics, automotive and metal industry are main drivers



# Challenges of the robotics industry

## **Simplification – critical to SMEs, but also important for large Global Manufacturers**

- Easier to use robots with more intuitive programming
- Standardisation and consistency across global brands

## **Digitalisation - Big Data allowing people to make better decisions about factory operations**

- Industry 4.0, linking the real-life factory with a virtual one
- Vision and sensing devices, coupled with analytics platforms
- Machine Learning/AI

# Challenges of the robotics industry

## **Collaboration - humans and robots in shared workplaces without fences opens up new possibilities and concepts in production and in non-industrial areas**

- Robots assist humans in the workplace
- More flexibility in the production process – Increase of productivity
  - Shop floor flexibility – not defined by cages
  - New processes to manage low-volume high-mix production
- Cobots in warehouses to manage increasing order volume

# Robots and AI – Vision and Reality

# Thank you!

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