



Federal Ministry  
for Economic Affairs  
and Energy



In Cooperation with



# Enhancing opportunities of IoT implementation for SMEs in Japan

24 April 2018

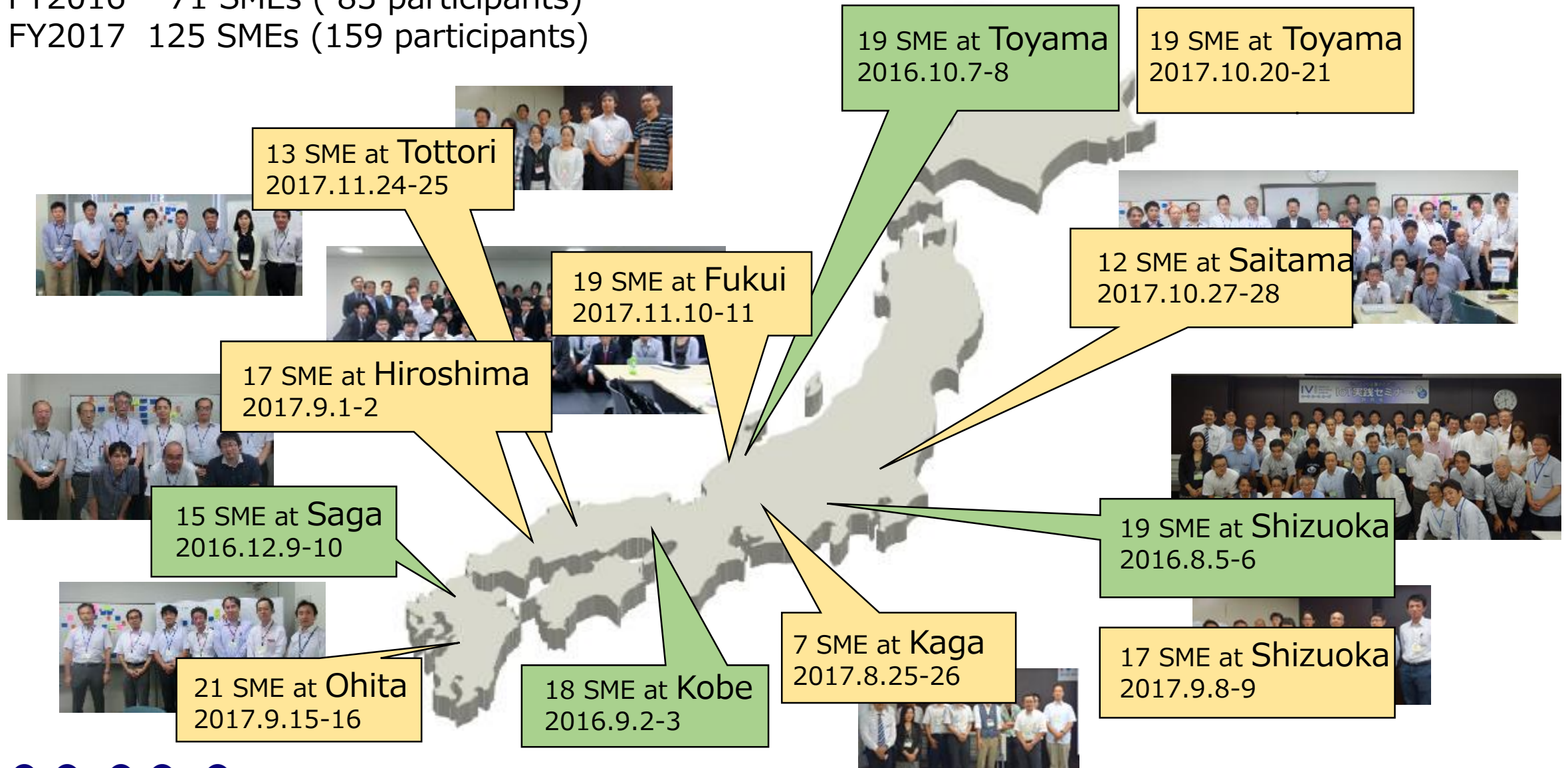
Prof. Dr. Yasuyuki Nishioka  
Industrial Value Chain Initiative  
Hosei University



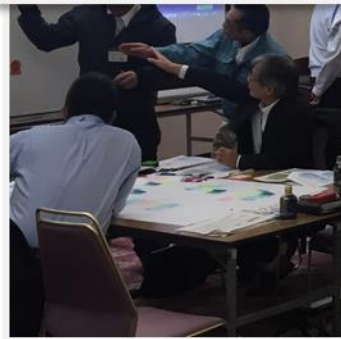
Industrial Value Chain Initiative

# SME network on IVI Regional Seminars 2016/2017

- FY2016 71 SMEs ( 83 participants)
- FY2017 125 SMEs (159 participants)



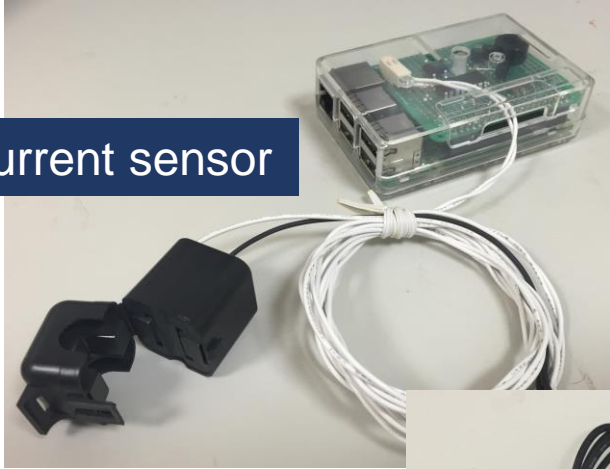
# SME network on IVI Regional Seminars 2016/2017





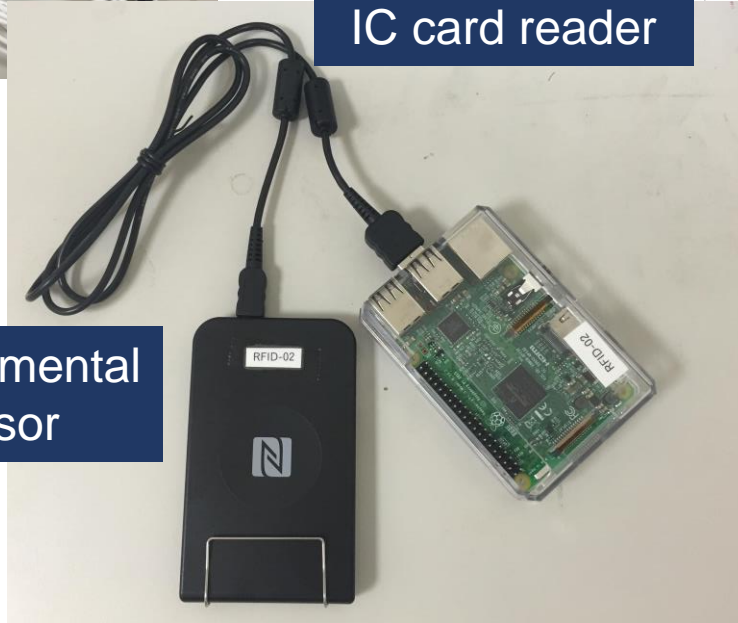
# IoT Kit Configurations (recipe) for SMEs

Current sensor



Low price &  
Open source  
( ¥100,000  
≒ 740 Euro)

IC card reader



Environmental  
sensor



Motion sensor



IC進捗管理\_04 [生産オーダー]

ファイル(F) 表示(V) 編集(E) 管理(M) 入出力(O) 作業用(W) 業務 アドイン

生産オーダー

切替 実績一覧(オーダーごとに表示) 進捗表へ マンテへ

生産オーダー	品名	数量	単位	納期	状態	内容	切断	曲げ	溶接	塗装
10001	製品A	1	式	06/22	完了	内容	完了	完了	完了	
10002	製品B	1	式	06/23	着手	内容	完了	着手		
10003	製品C	4	個	06/21	着手	内容	完了	着手		
10004	製品D	20	個	06/25	着手	内容	着手			

started

completed

生産指示書

生産オーダー	得意先	カード番号
10001	西岡商事	
品番	品名	生産状態
N001011	製品A	
数量	単位	納期
1	式	2017/6/22

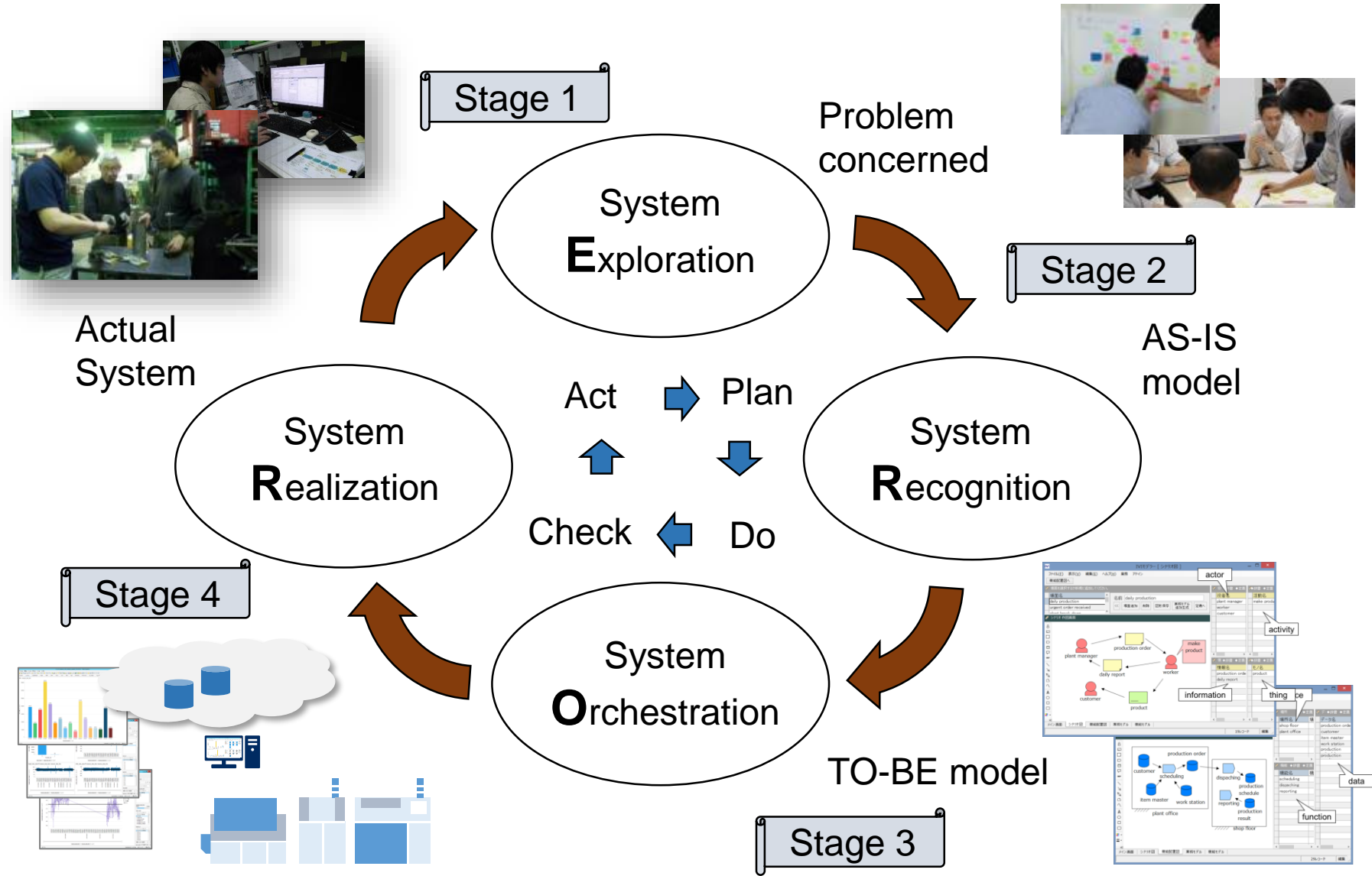
作業指示	工程名	開始	状態	備考
10001	切断	2017/6/14		
10002	曲げ	2017/6/15		
10003	溶接	2017/6/16		
10004	塗装	2017/6/16		

Production order sheet

This is along with the work palette



# Cyclic Process for self-improvement



# 30 experimental projects are following the seminars

## IVI Regional award 2018

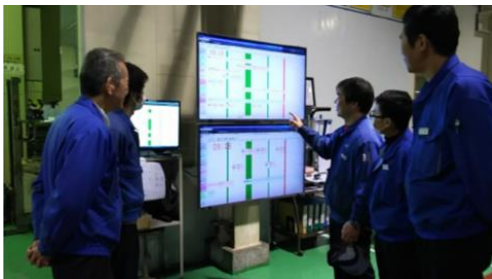


**Tokyo Titanium**

Monitoring and notification service  
of Water-jet machine conditions



Tanaka manufacturing co.,ltd.  
株式会社田中製作所



Manufacturing  
execution system  
for SME



Preventive maintenance of  
tool lifetime management



**Richell**

Study of RFID capability  
for shipping management



**KONGO**



Bottle neck management of  
laser cutting machine



株式会社 長田工業所

Cost management by low  
cost IoT tools






Industrial Value Chain Reference Architecture-Next

Strategic implementation framework of industrial value chain for connected industries

IVRA Next



initiative

chitecture

Please visit us at  
Hall 7 stand A31

Download at  
<http://iv-i.org/en/>

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