



GE, THE Digital Industrial Company

- 디지털 산업기업을 향한 “GE의 대 변신”

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2017년 11월 9일

Imagination at work



March 21 - March 27, 2016 | bloomberg.com

Bloomberg Businessweek

Jeff Immelt may return GE to a glory it hasn't seen since me p54

The 124 Year Old Startup

Did someone say my name?

A central photograph of Jeff Immelt, CEO of GE, holding a glowing lightbulb. The image is overlaid with colorful, hand-drawn doodles in various colors (red, blue, yellow, green, pink). The text 'The 124 Year Old Startup' is written in large, bold, yellow letters across the center. A small speech bubble at the bottom left says 'Did someone say my name?' with a small portrait of Immelt. A larger speech bubble at the top right says 'Jeff Immelt may return GE to a glory it hasn't seen since me p54'. The background of the central image is a dark, textured surface.

GE Continuously Disrupts Itself.



합병

2001

2015

매각



KBS1

明見

명견만리

THEIR SIGHT

The insight

4차 산업혁명과

소프트파워

명견만리



Industrial Internet Market by 2020: ~\$225B



Digital Industrial Portfolio

								
POWER	ENERGY CONNECTION	RENEWABLE ENERGY	OIL & GAS	AVIATION	TRANSPORTATION	HEALTHCARE	LIGHTING	CAPITAL VERTICALS
~\$21.5B	~\$7.6B	~\$6.3B	\$16.5B	\$24.7B	\$5.9B	\$17.6B	\$8.8B	\$1.7B*

2015 REVENUES



GE DIGITAL

~\$6B**

*Net income
** Revenue by year end 2016



GE – The Digital Industrial Company



이제는 산업인터넷 시대다.

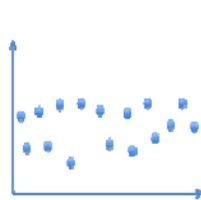


“어제까지는 제조산업 기반의 회사였지만,
이제는 데이터 및 분석 회사로 거듭나야 합니다.”

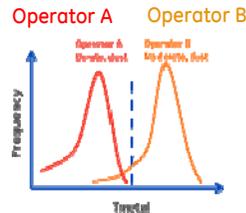
- Jeff Immelt, Chairman and CEO



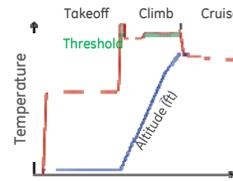
GE DIFFERENCE: PHYSICAL + ANALYTICAL eg) GE Aviation



DATA
연속적
연결가능



STATISTICS
트렌드 및
컨텍스트



PHYSICS
설비에
대한 전문
지식 반영

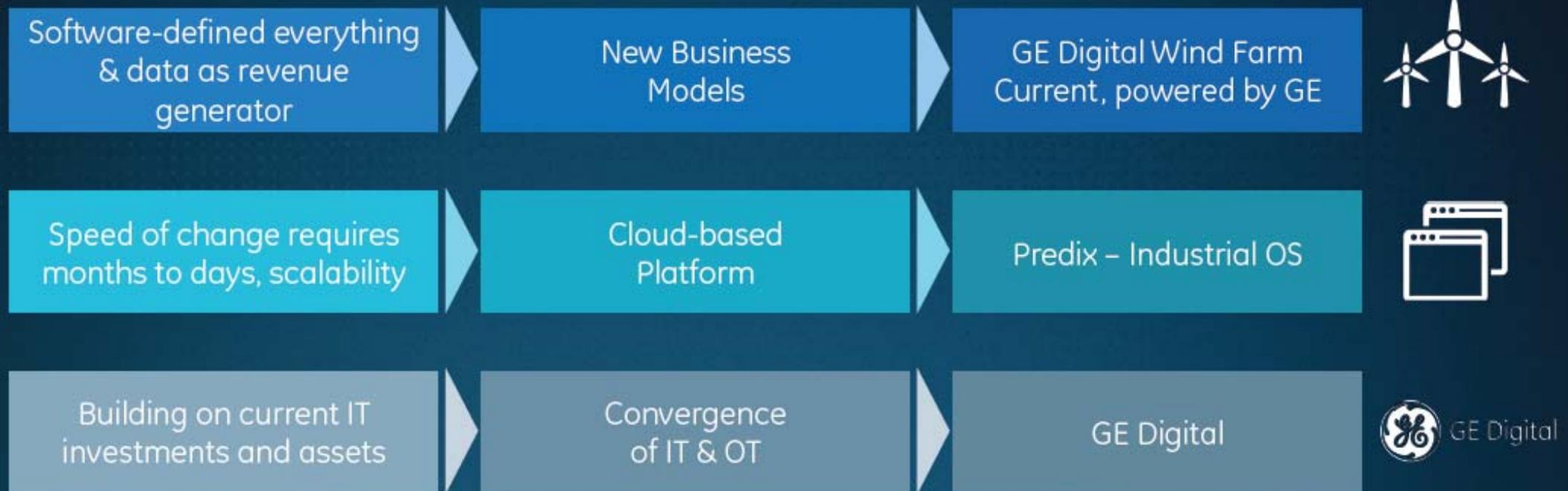
고객과 GE의 효용

- ↑ 정시 운영율
- ↑ 가용성 및 신뢰성
- ↓ 연료 비용
- ↓ 수리 및 Overhaul비용



The Digital Transformation

How We Are Evolving



1) New Business Model – Digital Power Plant

COMPONENT DIAGNOSTIC - LEVEL 22/24/28

SCHEDULED MAINTENANCE

DIAGNOSTICS - REAL TIME

ALERT

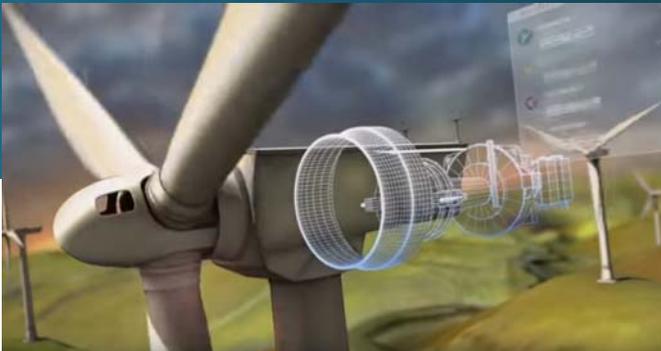
문제를 예측하고
필요한 때만 유지 보수가 가능하다면요?



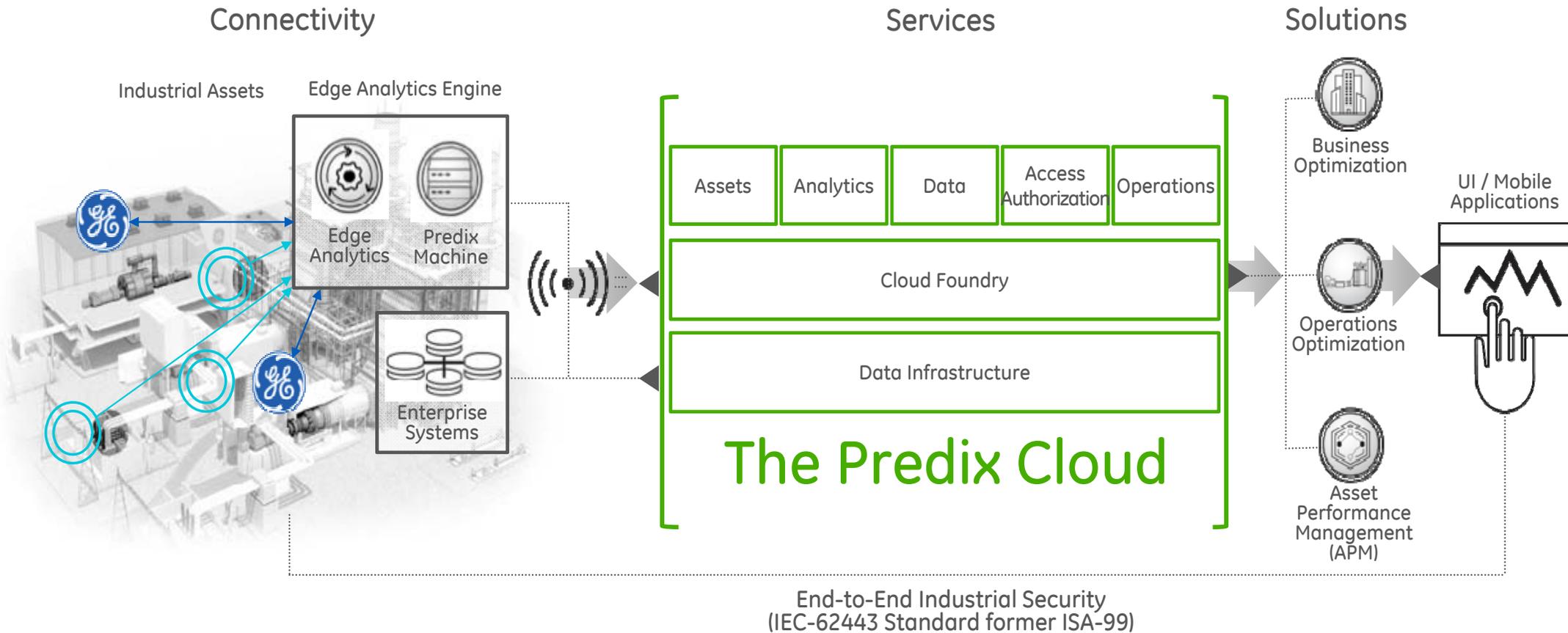
2) Cloud Based IIoT Platform - Predix

PREDIX

Your cloud platform for the Industrial Internet



프레딕스 = 산업현장과 클라우드, 사용자를 연결하는 플랫폼



3) Convergence of IT & OT – Brilliant Factory



**센서기반 자동화
(Sensor-Enabled Automation)**

센서가 탑재된 기계는 공장 안에서 데이터를 수집하여 돌발적 가동 중지를 예방하고 생산성을 높인다.



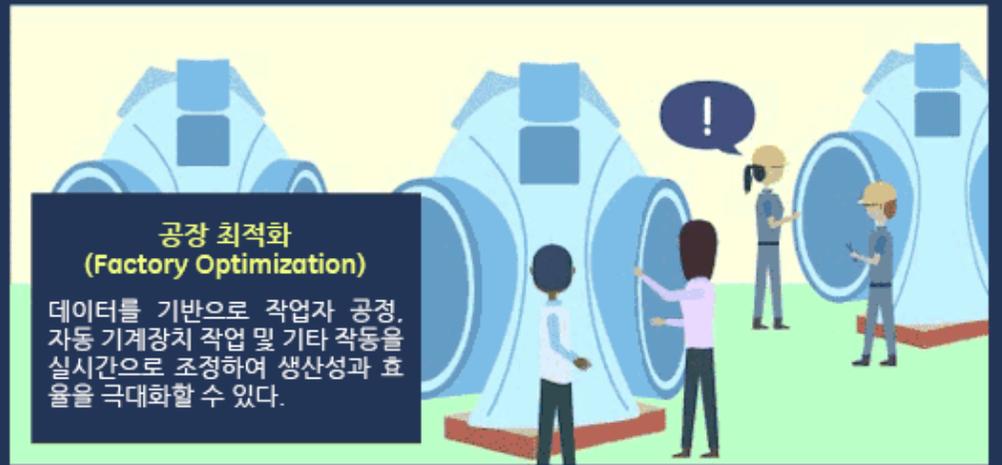
**가상 제조
(Virtual Manufacturing)**

디지털 툴과 협업 도구를 활용하여 아날로그적 요소를 제거하는 동시에, 끊임없이 진화하는 3D제품 모델을 신속하고 반복적으로 제조할 수 있다.



**첨단 기술
(Advanced Technologies)**

3D 프린터로 새로운 솔루션의 프로토타입을 쉽게 제작할 수 있고, 차세대 부품 생산을 가속화할 수도 있다.



**공장 최적화
(Factory Optimization)**

데이터를 기반으로 작업자 공정, 자동 기계장치 작업 및 기타 작동을 실시간으로 조정하여 생산성과 효율을 극대화할 수 있다.

1%의 생산성 개선 = GE 내부적으로만 \$500MM (6천억원) 절감
다운타임 10~15%, 인건비 14%, 재고 30%, 리드타임 60% 절감 예상



Changing company culture

Culture of Simplification

To deliver better outcomes, we are creating a better, faster, simpler GE



Integrated
culture change

Lean
management



Running GE differently ... fewer things better ...
most decisions distributed ... small headquarters &
functions ... respect domain

+

Speed &
competitiveness



Combining FastWorks with lean, six sigma ...
democratized; broad competitive intensity; mistakes
and pivots a part of good management

+

Commercial
intensity



Seamless market alignment globally; more horizontal
solutions for customers ... only value winning

+

Digital
capability



Smartest and most efficient company in the world ...
new talent base bringing new skill set



