



Aligned with your needs.



*IFAME*

*17 September 2015*





# Bringing Fair Play to the Fairway

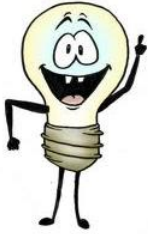
SLIDE 2

In the 1940s, no one knew who could hit or drive a ball further; without formal standards, distance was in the ball, not the player.

To save the integrity of the game, our engineers constructed a machine to drive one ball after another with exactly the same force, resulting in a speed limit that became a rule of golf.

Today, a version of this machine measures the performance of every type of golf ball played in tournaments worldwide, which ensures players' skills alone decide the game.

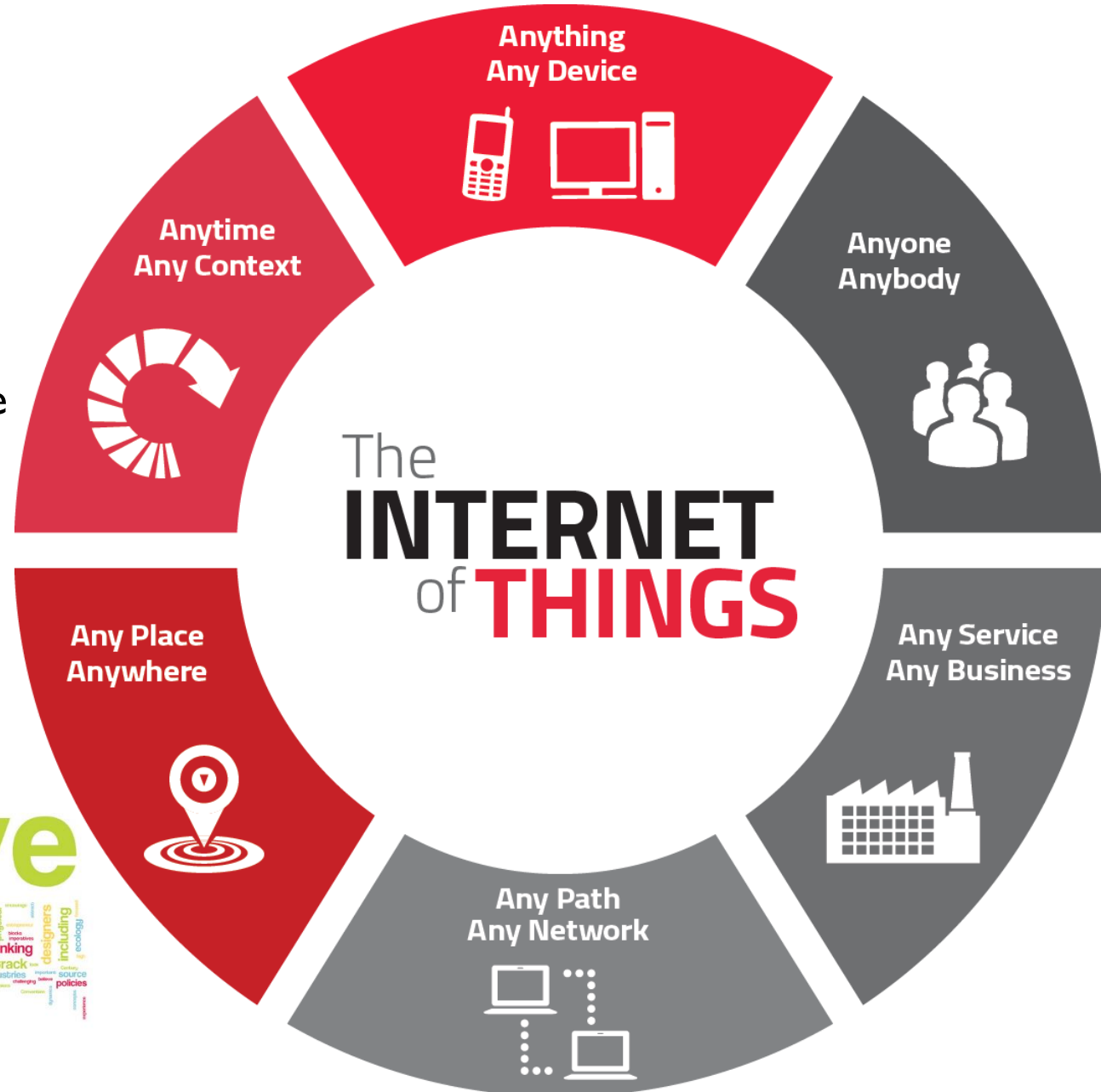




Allow Any Person  
Using Any Device  
To Provide Any Service  
At Any Time  
Using Any Network  
To Any Place



# Creative





Product is Limited only to the Application  
that is Creatively Identified





**I WANT THIS  
I WANT IT CHEAP  
I WANT IT NOW**





A self self-contained, self self-sustaining, C-130 transportable mobile mini-manufacturing system that can efficiently fabricate standard and unique parts at or near the point of need.







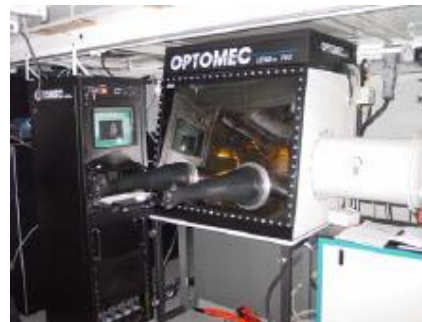
## 5-axis Mazak Integrex 100 II SY

- All tooling and maintenance equipment stored on board
- Set up: less than 1 hour
- Weight: 27,000 lbs
- Max machining diameter: 11.42"
- Max machining length: 28.62"

## Engineering Work Station

### Materials:

- Ferrous Metals
- Non-Ferrous Metals
- Plastics
- Ceramics



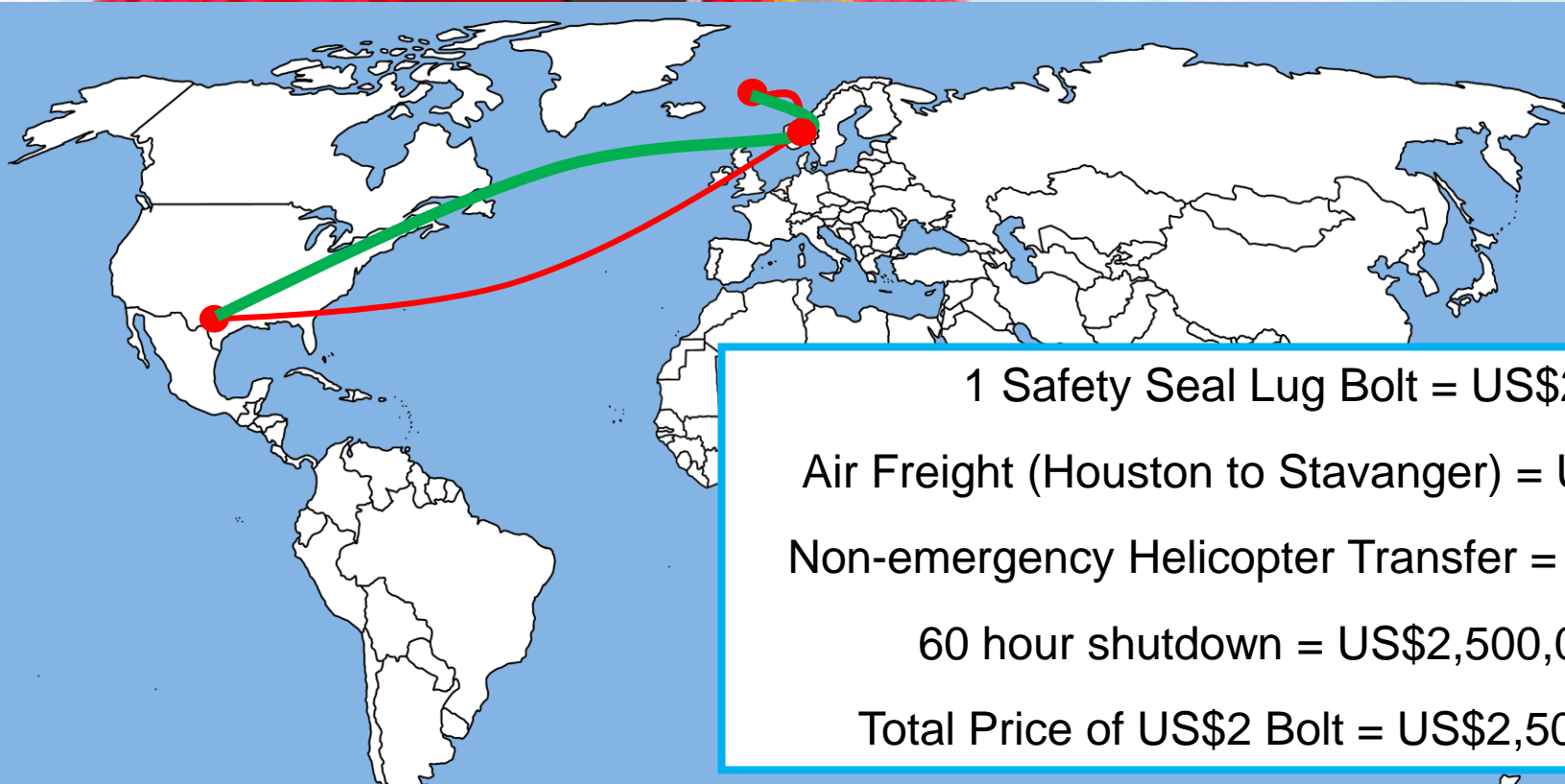
## Optomec LENS™ 750 Directed Material Deposition Machine

- 14,100 lbs
- 1 hour to set up
- Creates fully-dense, near net shape metal parts
- Maximum part size: 12"X12"X22"
- 58 Metal Powders Available

## Engineering Work Station

## Nextec Hawk 3-dimensional laser scanner





1 Safety Seal Lug Bolt = US\$2

Air Freight (Houston to Stavanger) = US\$1500

Non-emergency Helicopter Transfer = US\$3800

60 hour shutdown = US\$2,500,000

Total Price of US\$2 Bolt = US\$2,505,302



# Hyperlocal Small Batch Production

SLIDE 10









# Future is Hyperlocal Manufacturing

SLIDE 12

- Continued Needs:
  - Tooling Miniaturization,
  - Assembly Management
  - and the Industrial Customization Business Model







# THANK YOU

Advanced Solutions. Measurable Results.

## KEY TECHNOLOGIES