







#### The Top 10 Money Managers of the 20th Century:



1. Warren Buffett

2.Peter Lynch

3. Sir John Templeton

4. Benjamin Graham

5. George Soros

6.John Neff

7.John Bogle

8. Michael Price

9.Julian Robertson

10. Dr. Mark Mobius







# Perceptual Blindness





# How many times did they pass the ball?

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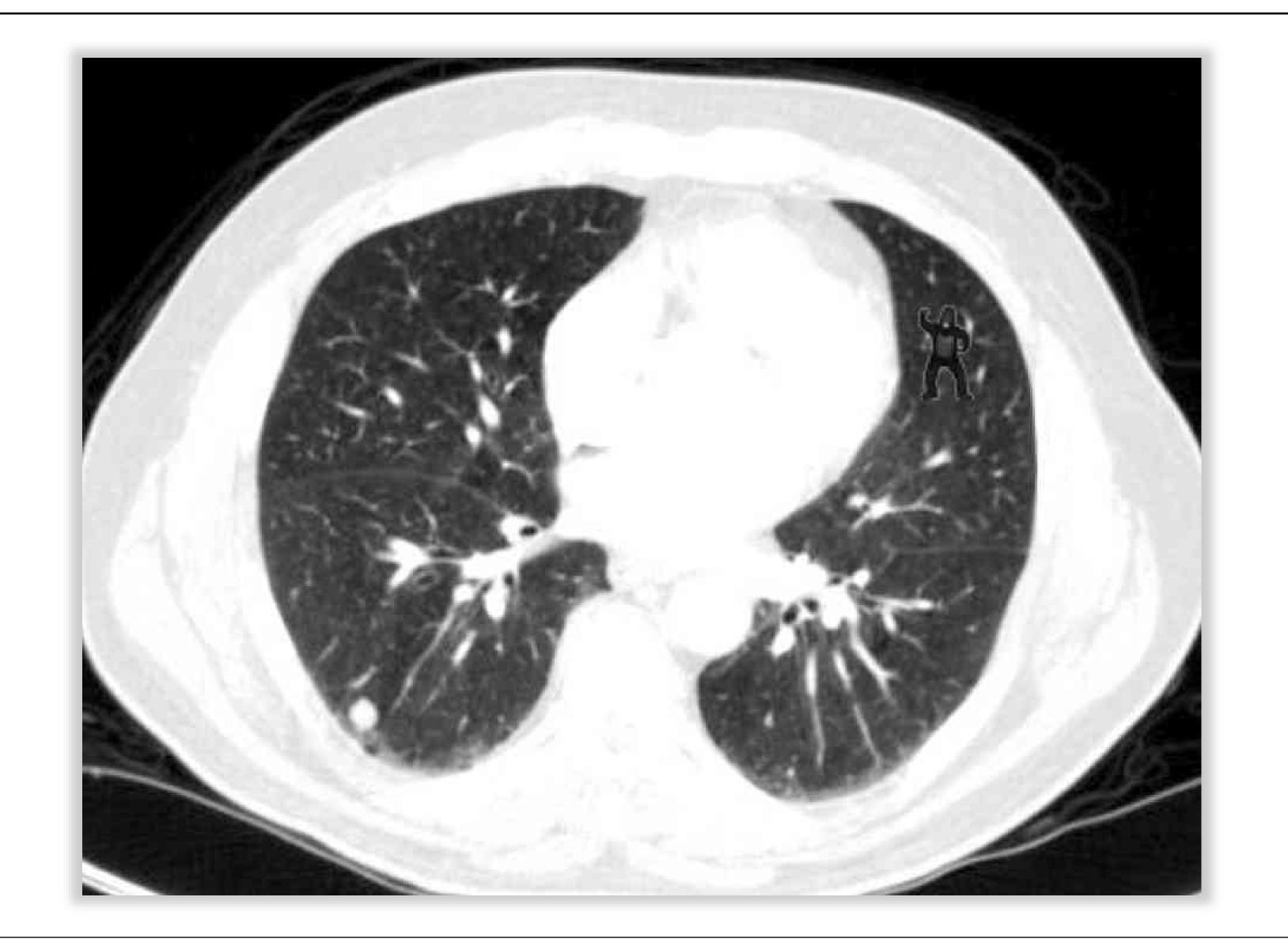
## Did you see the gorilla?

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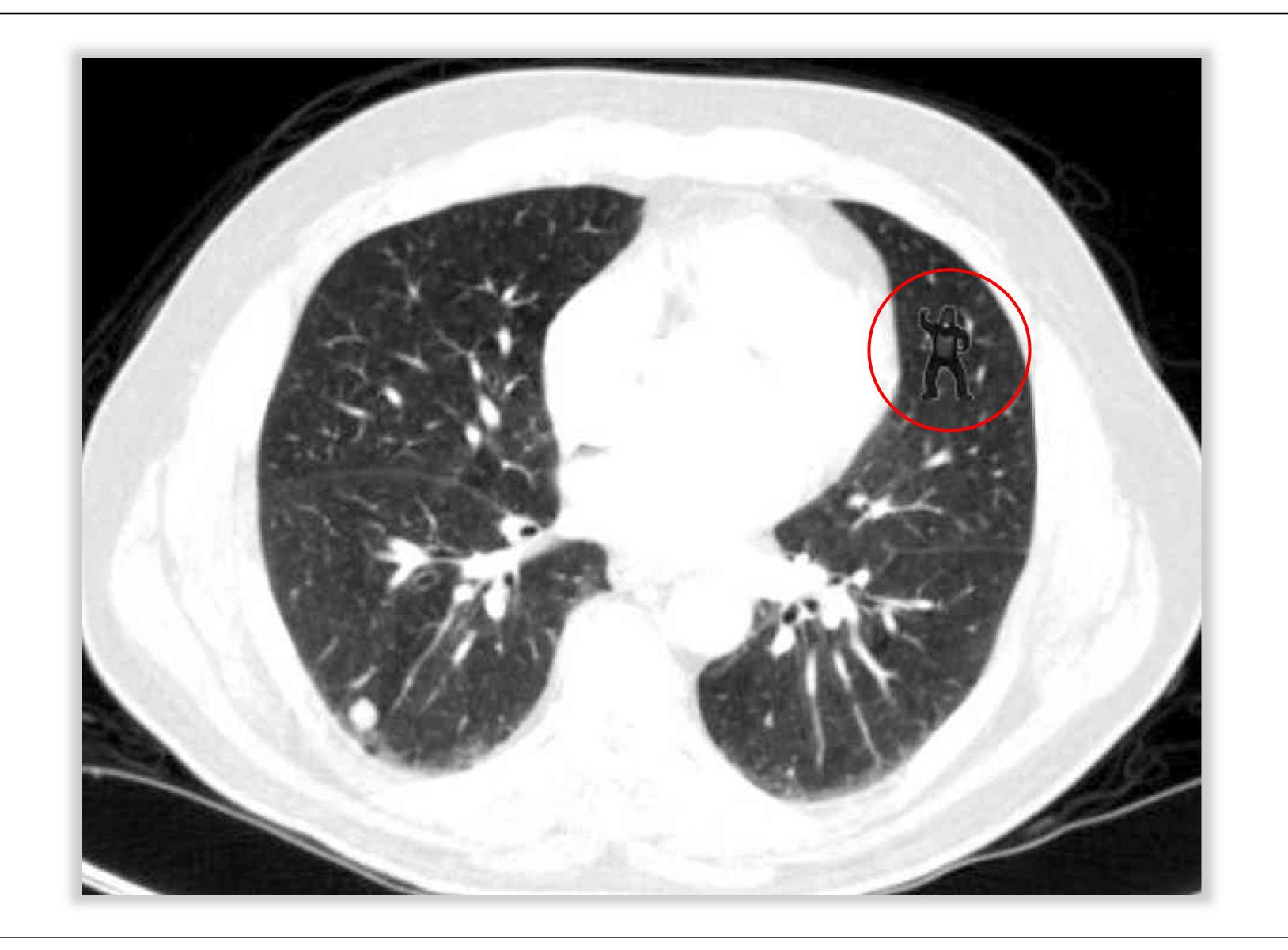




# Did you see the gorilla?







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"What we *focus on,* filters the world around us so aggressively, that it actually *limits* what we *see*."



### Creative Destruction

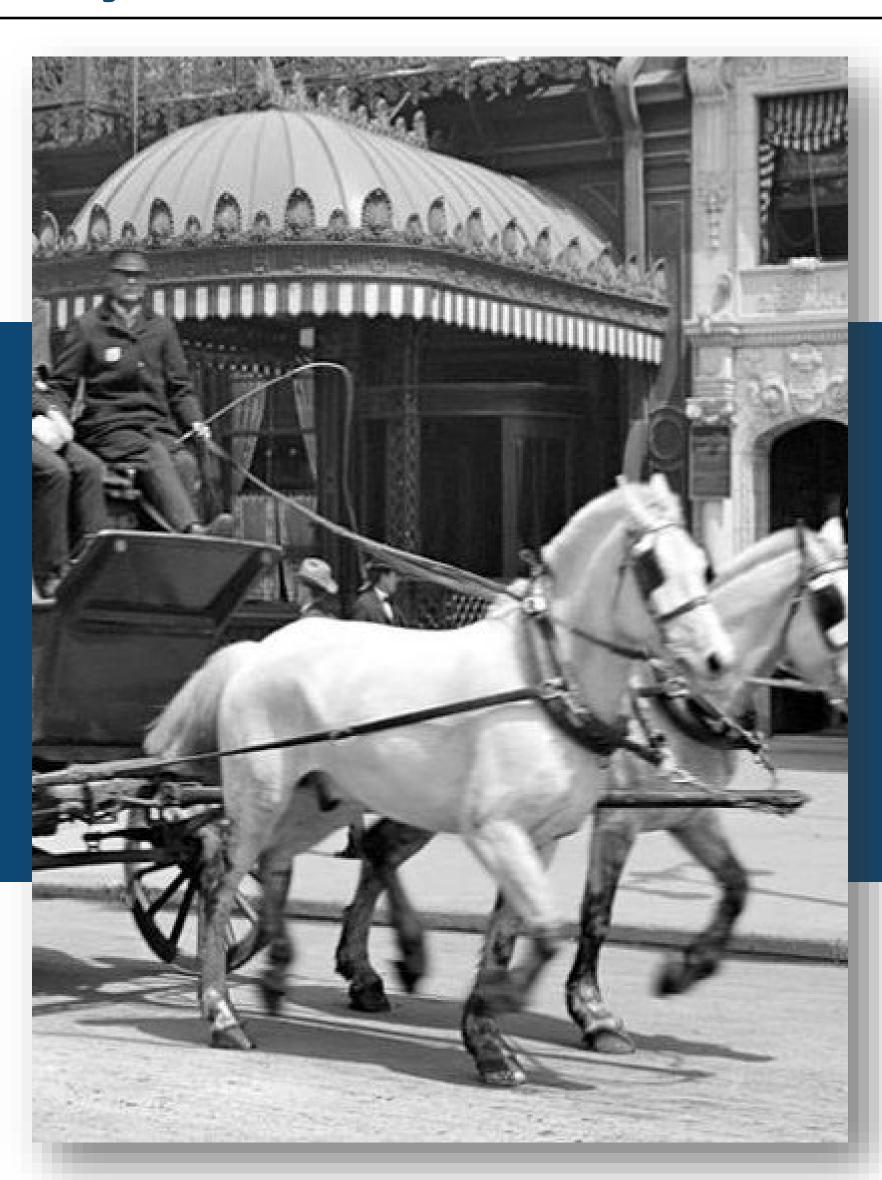
#### **Creative Destruction**





#### Necessity is the Mother of Invention





1880 – New York City

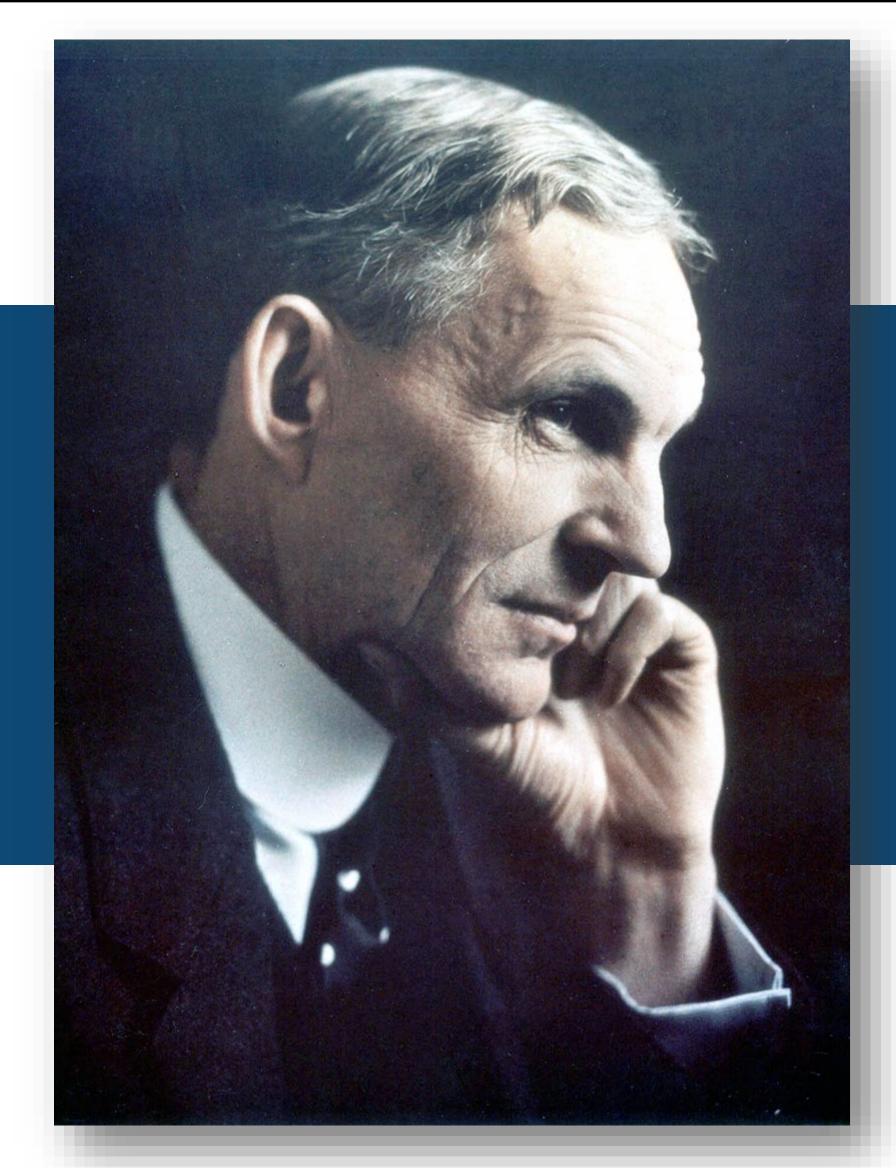
1898 – The world's first international urban planning conference

#### They did the math...









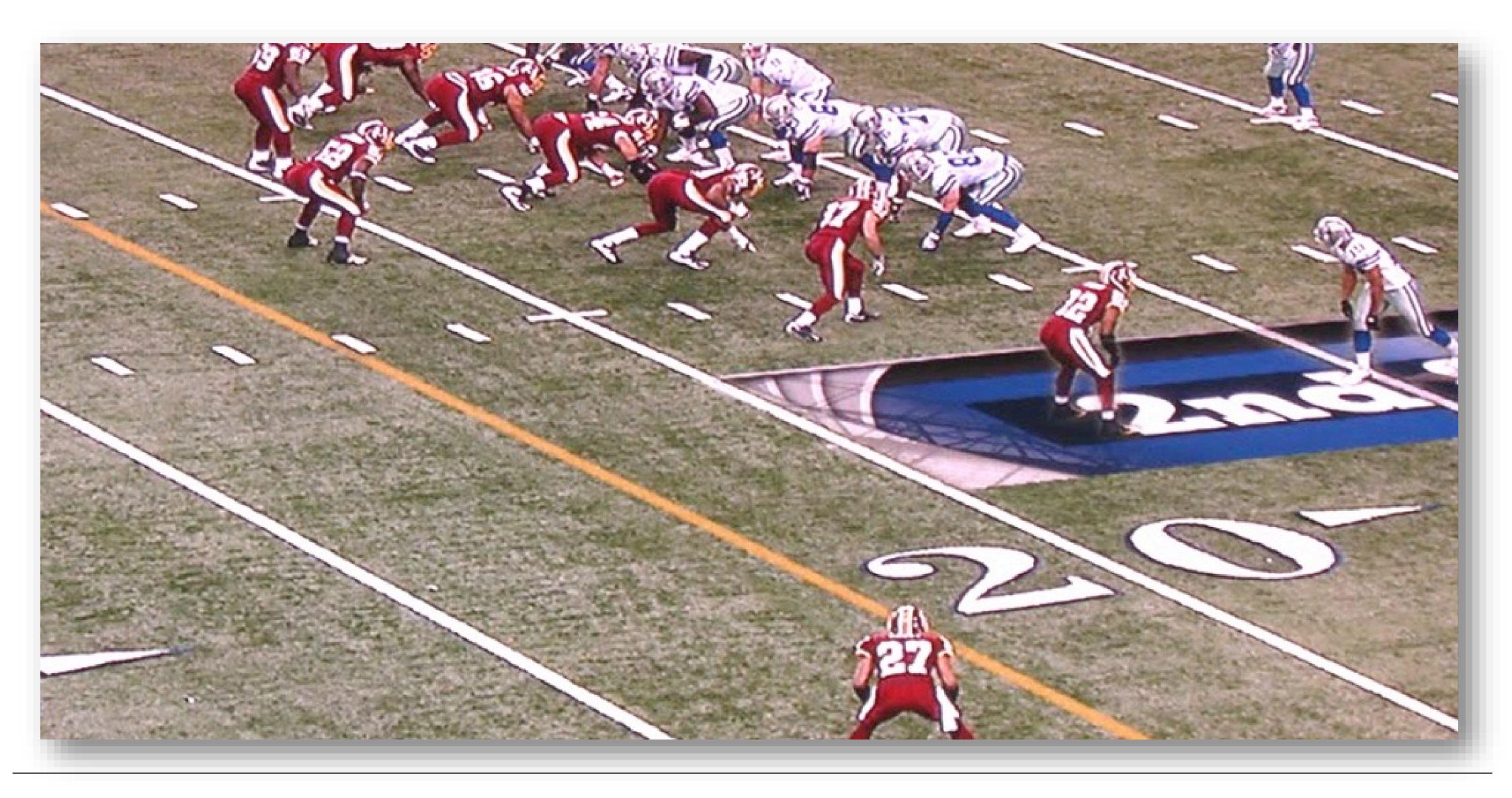
"The biggest problems with my customers is they can only extrapolate the present. If I had asked my customers what they wanted from Ford Motor Company, they would have said a faster horse."

-Henry Ford, 1913









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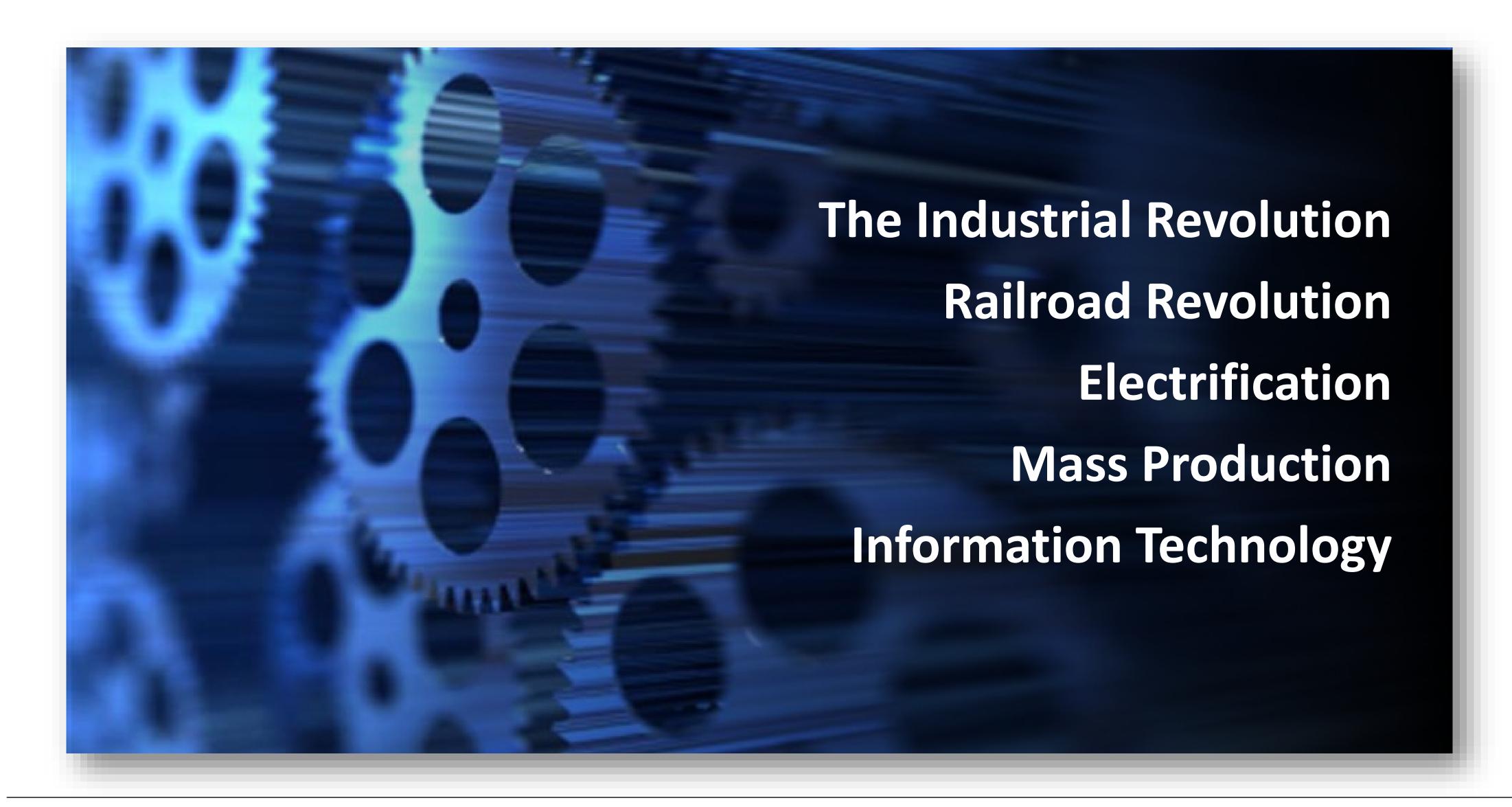






#### The Evolution of a Revolution





#### The Evolution of a Revolution





Idea **Exotic Curiosity Early Adoption General Acceptance** Frenzy Collapse Final Build-out It Becomes Invisible

#### Idea





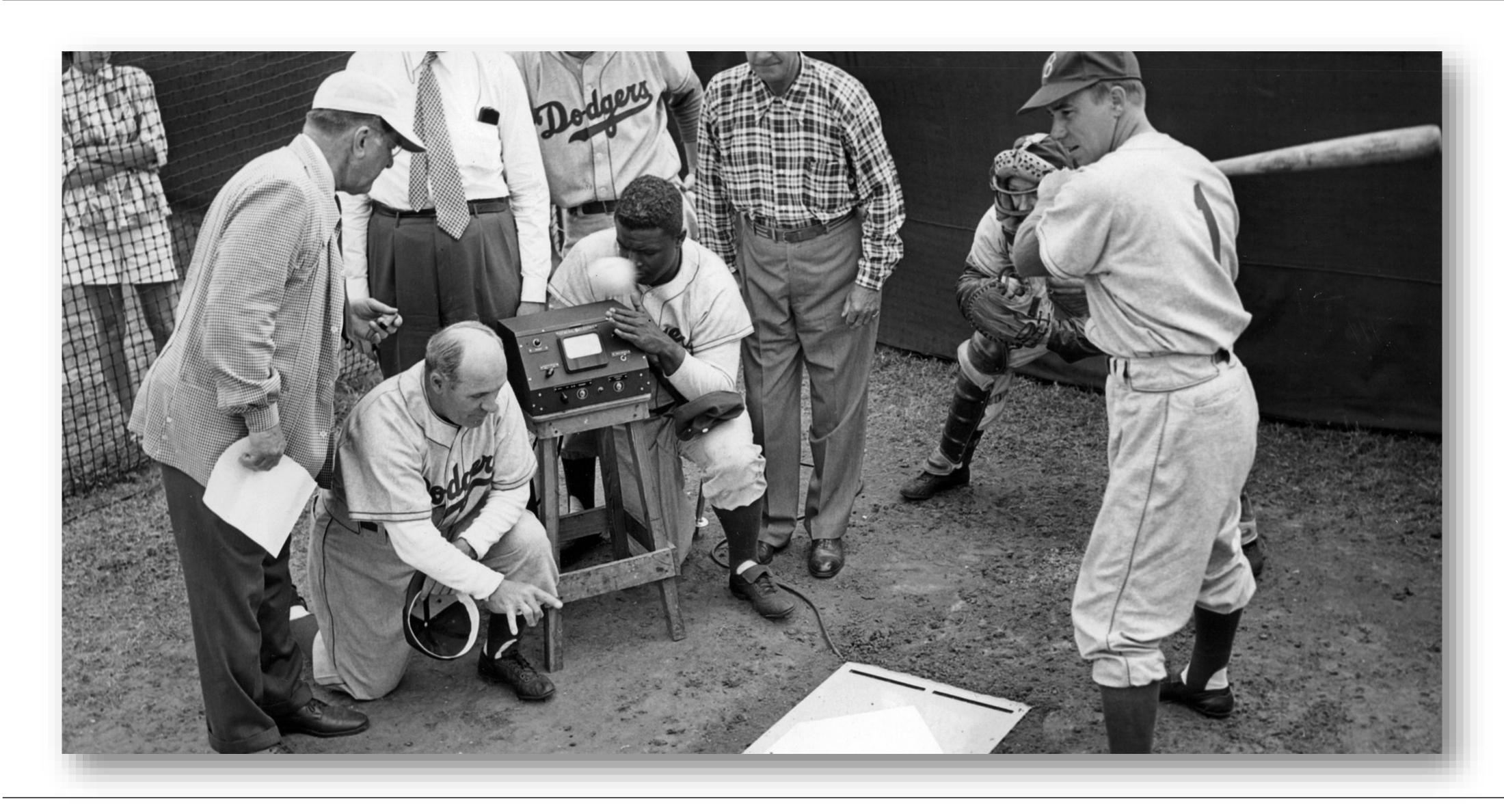
#### **Strike Zone**





#### March, 1950 – The Electronic Umpire





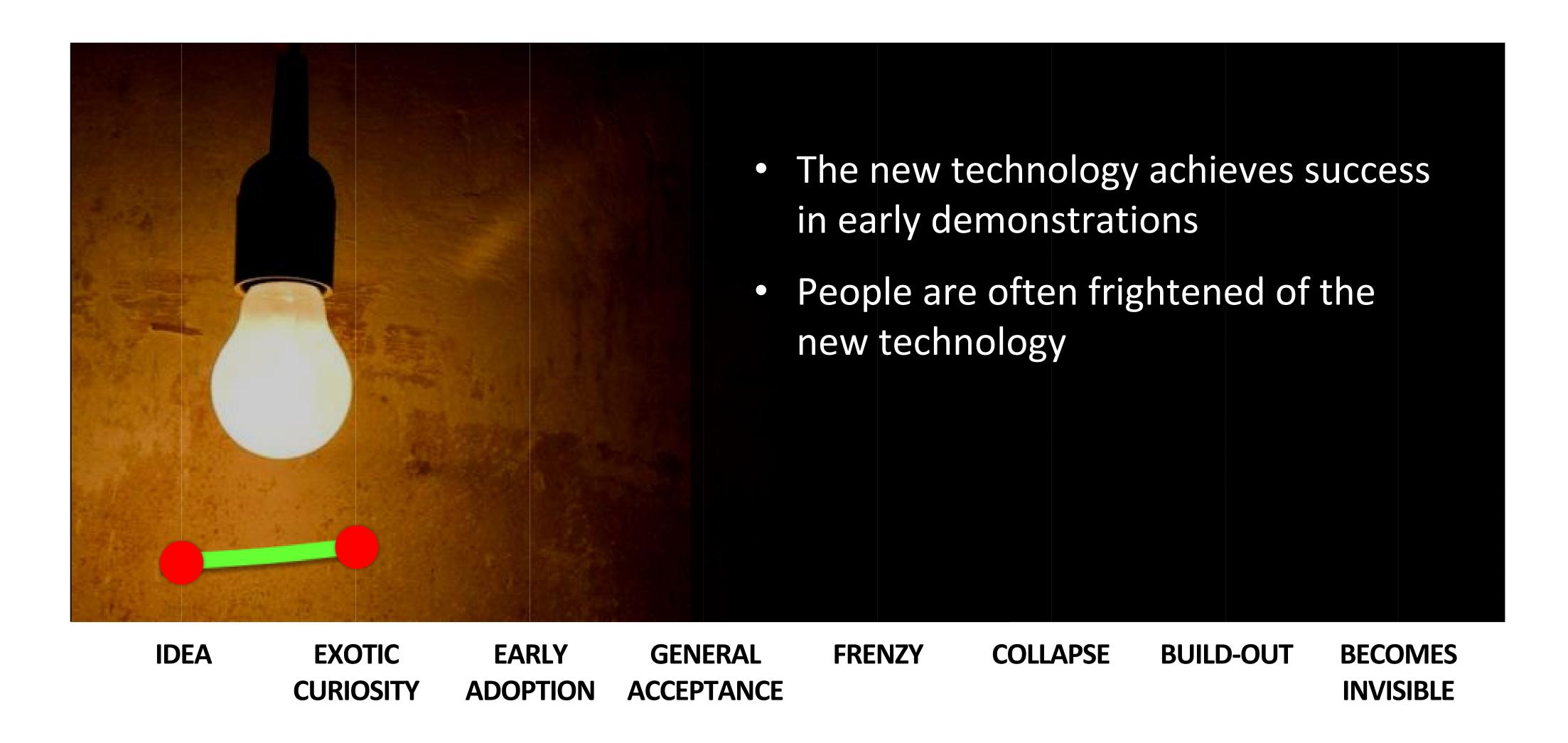
#### March, 1950 – The Electronic Umpire





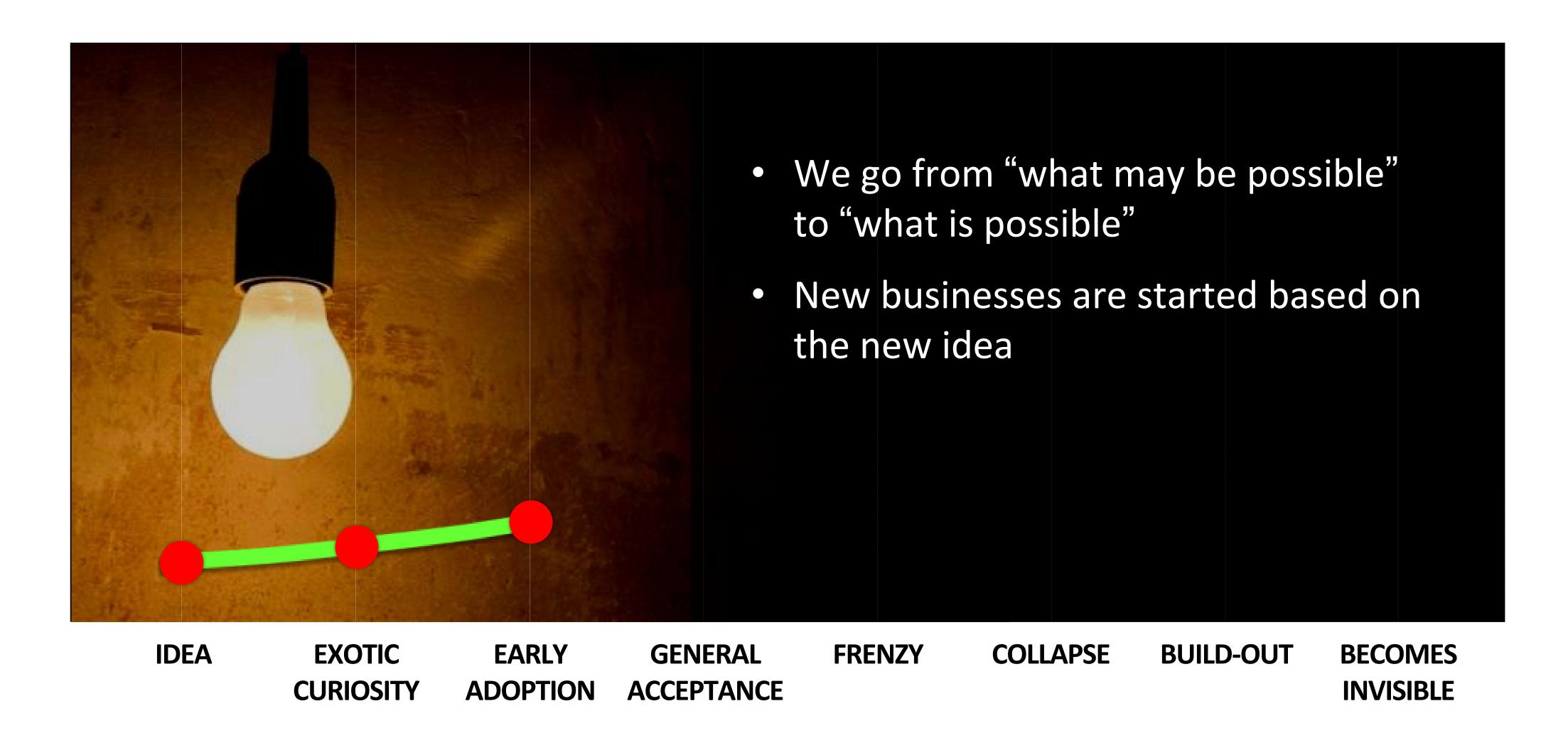
#### **Exotic Curiosity**





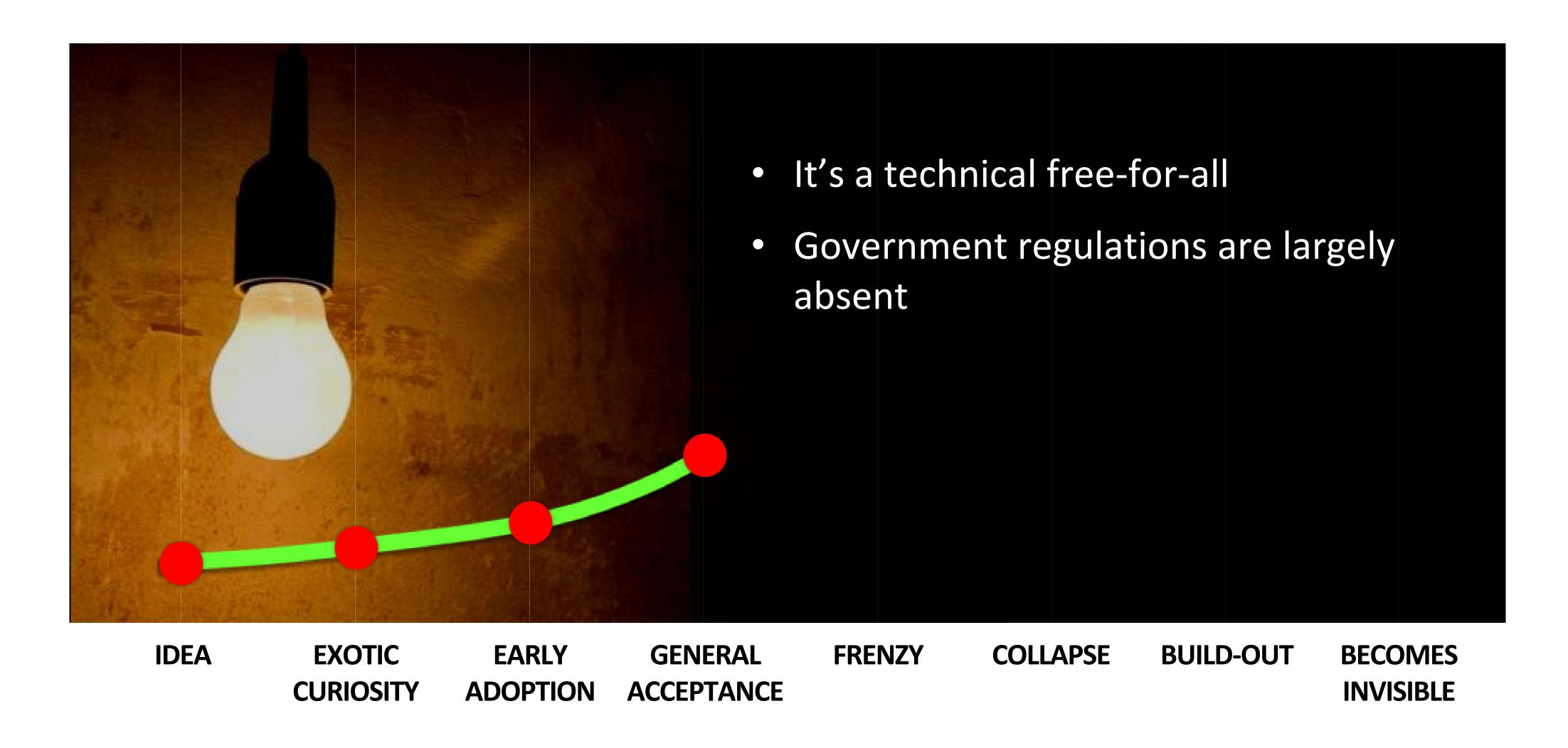
#### **Early Adoption**





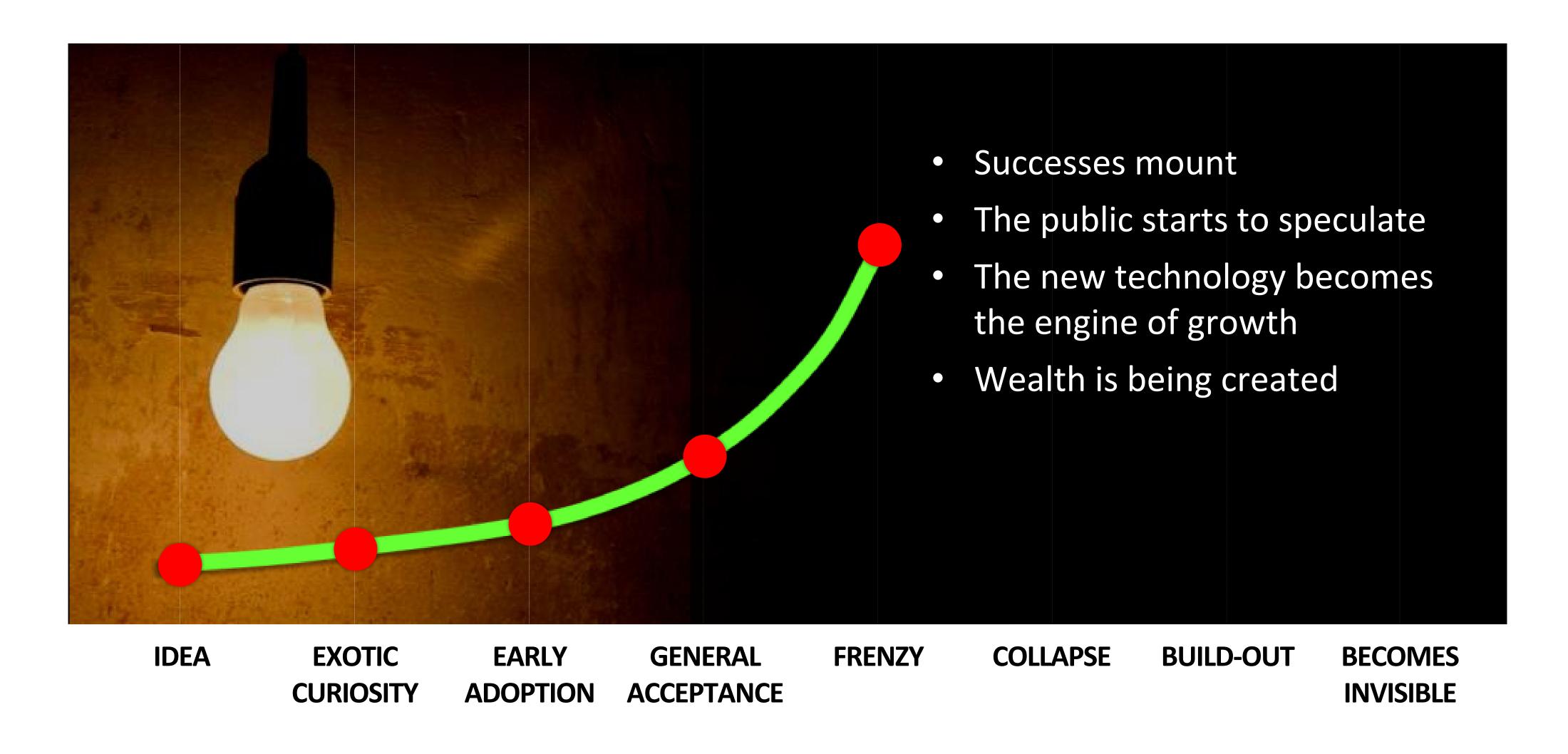
#### **General Acceptance**





#### Frenzy





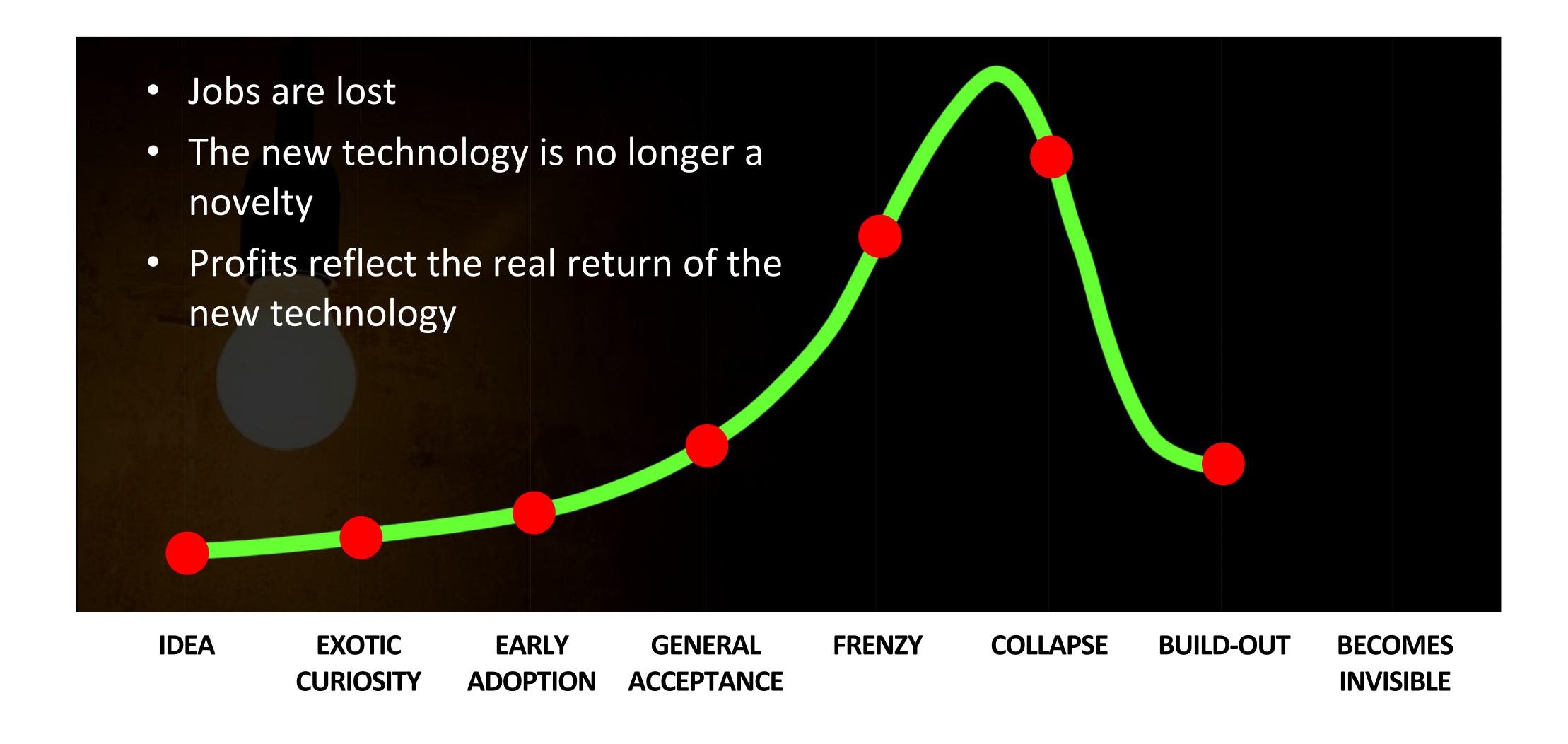
#### Collapse





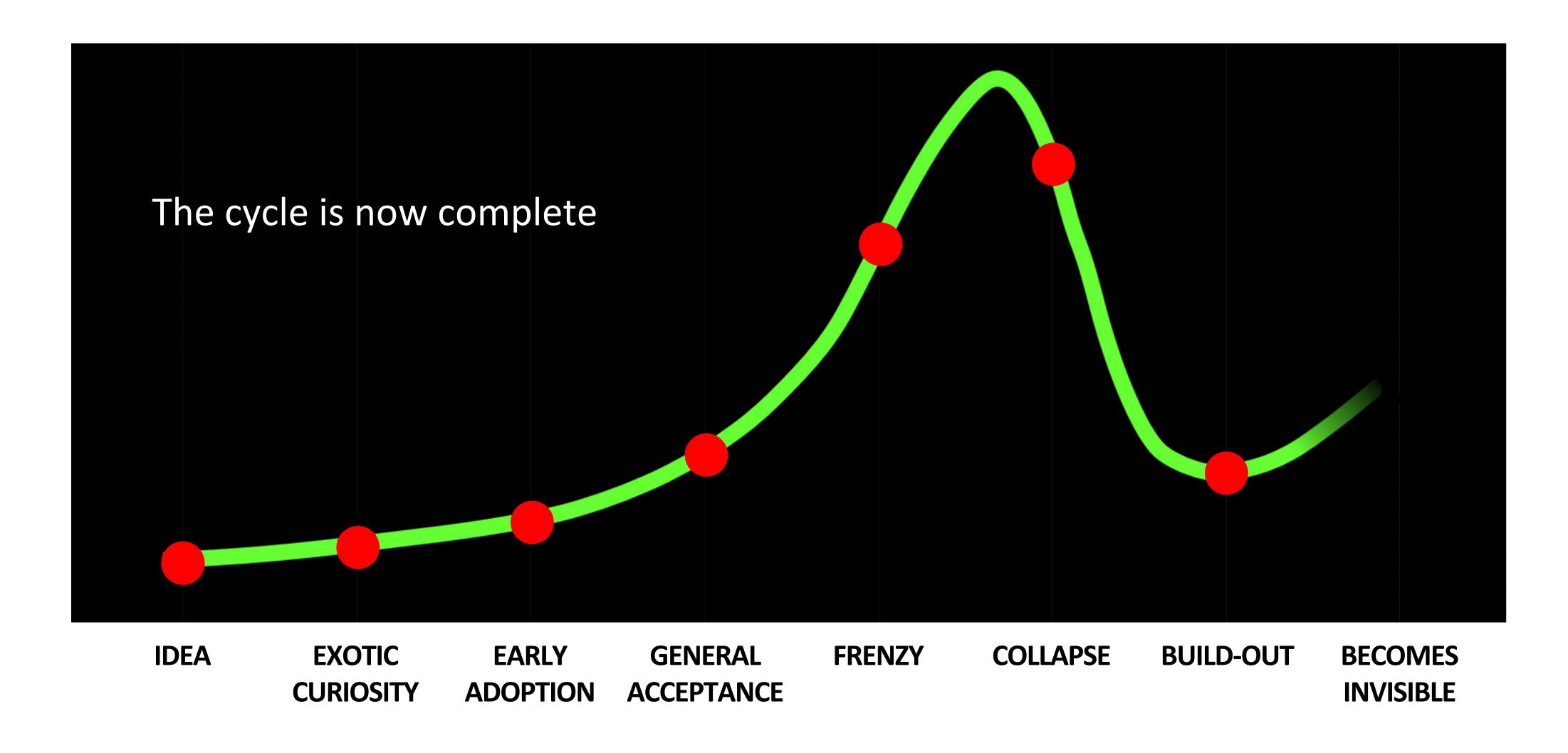
#### Final Build-out





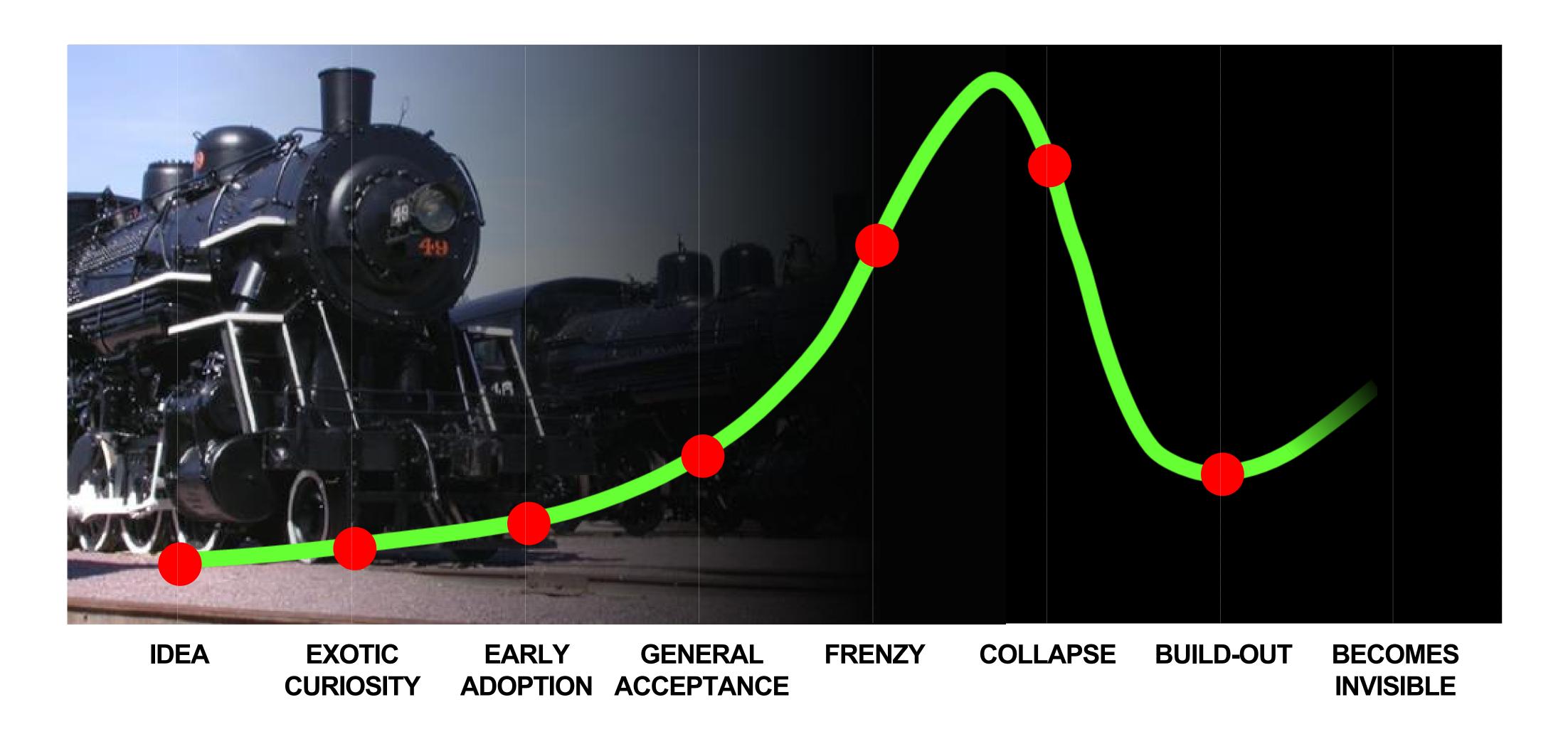
#### It Becomes Invisible





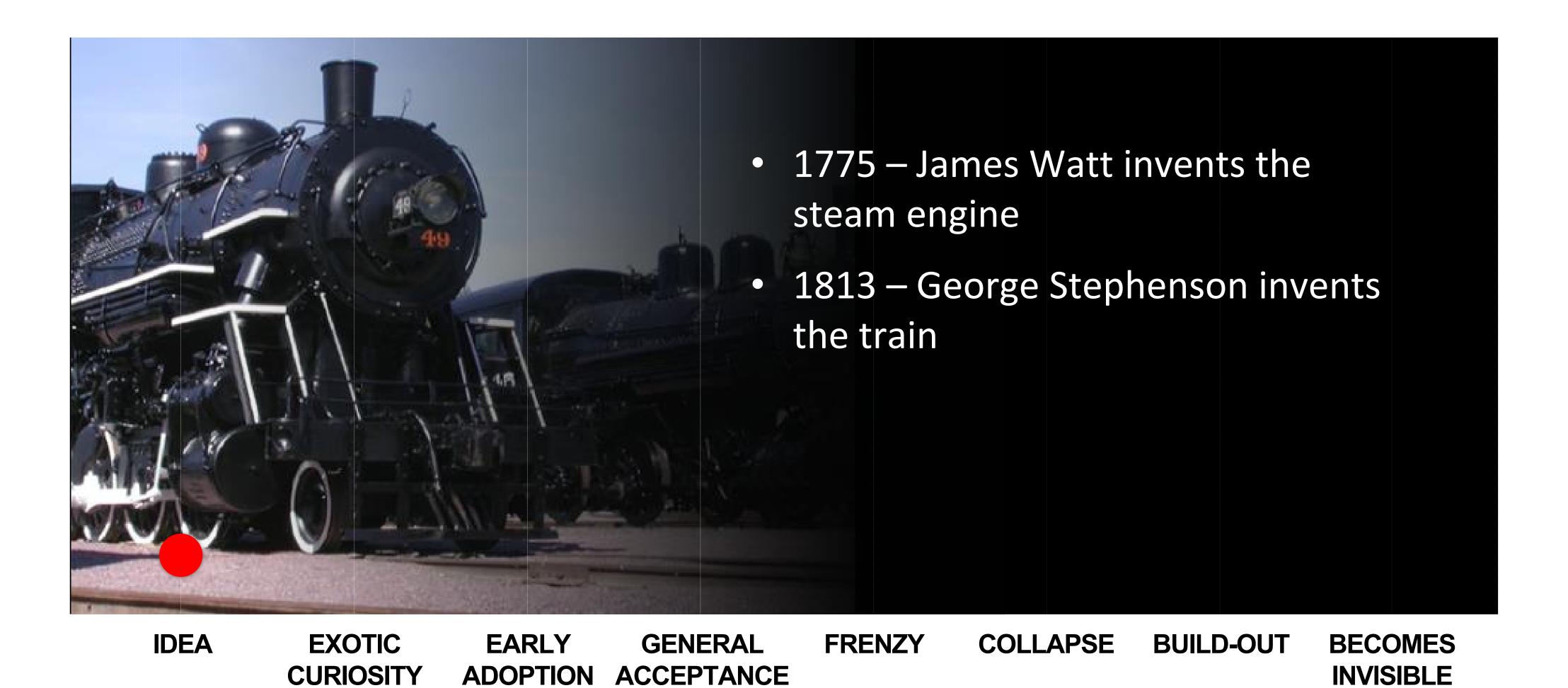
## Railroads





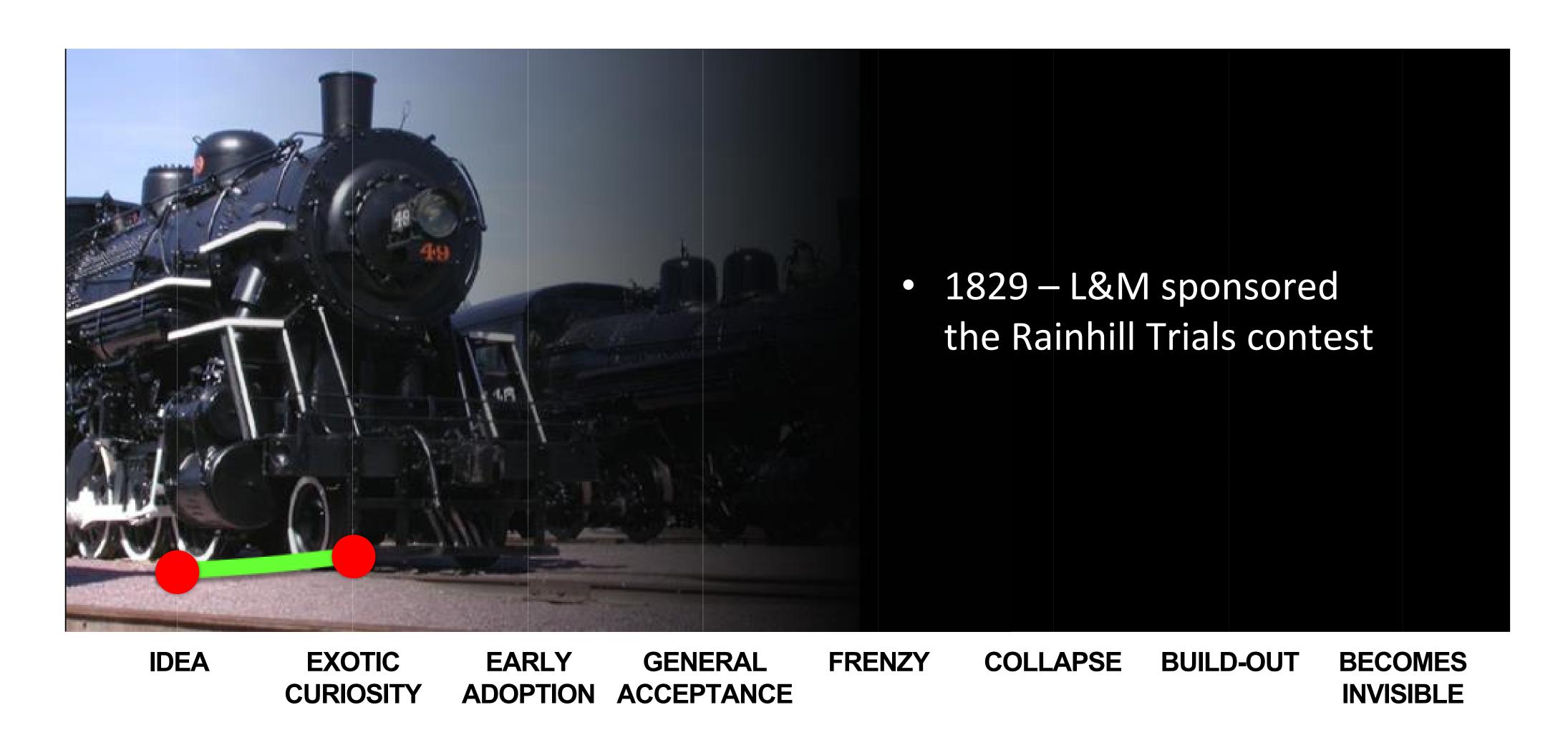
#### Idea





# **Exotic Curiosity**





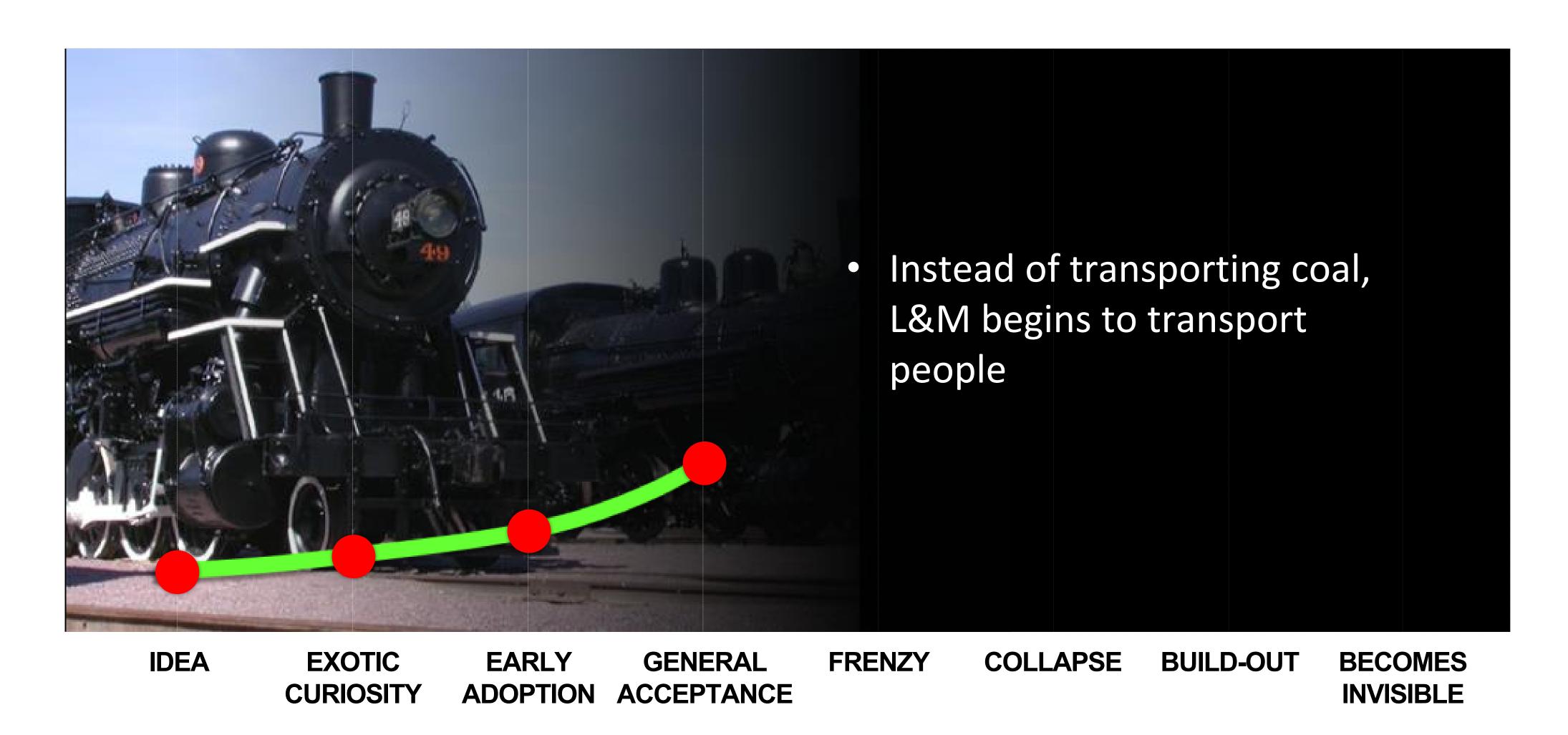
# **Early Adoption**





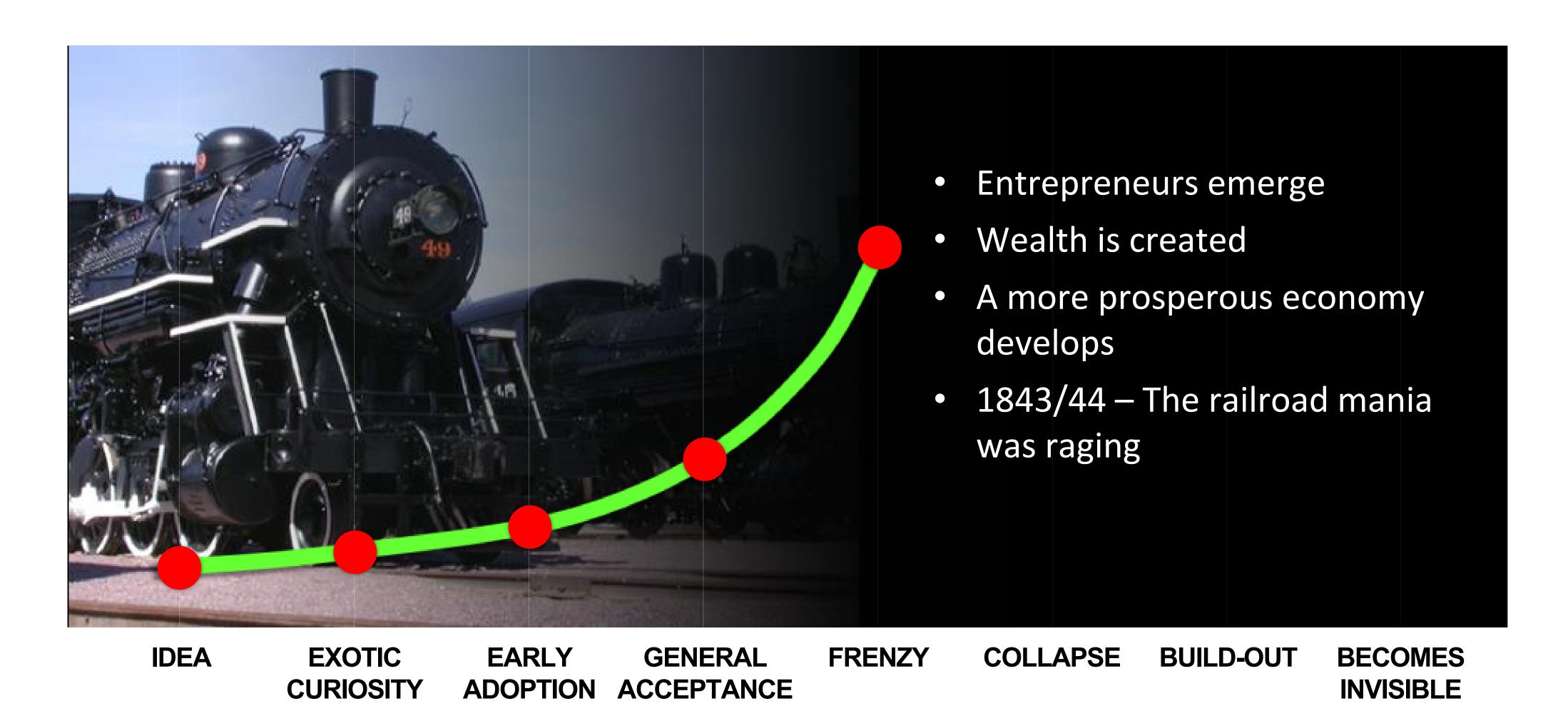
# **General Acceptance**





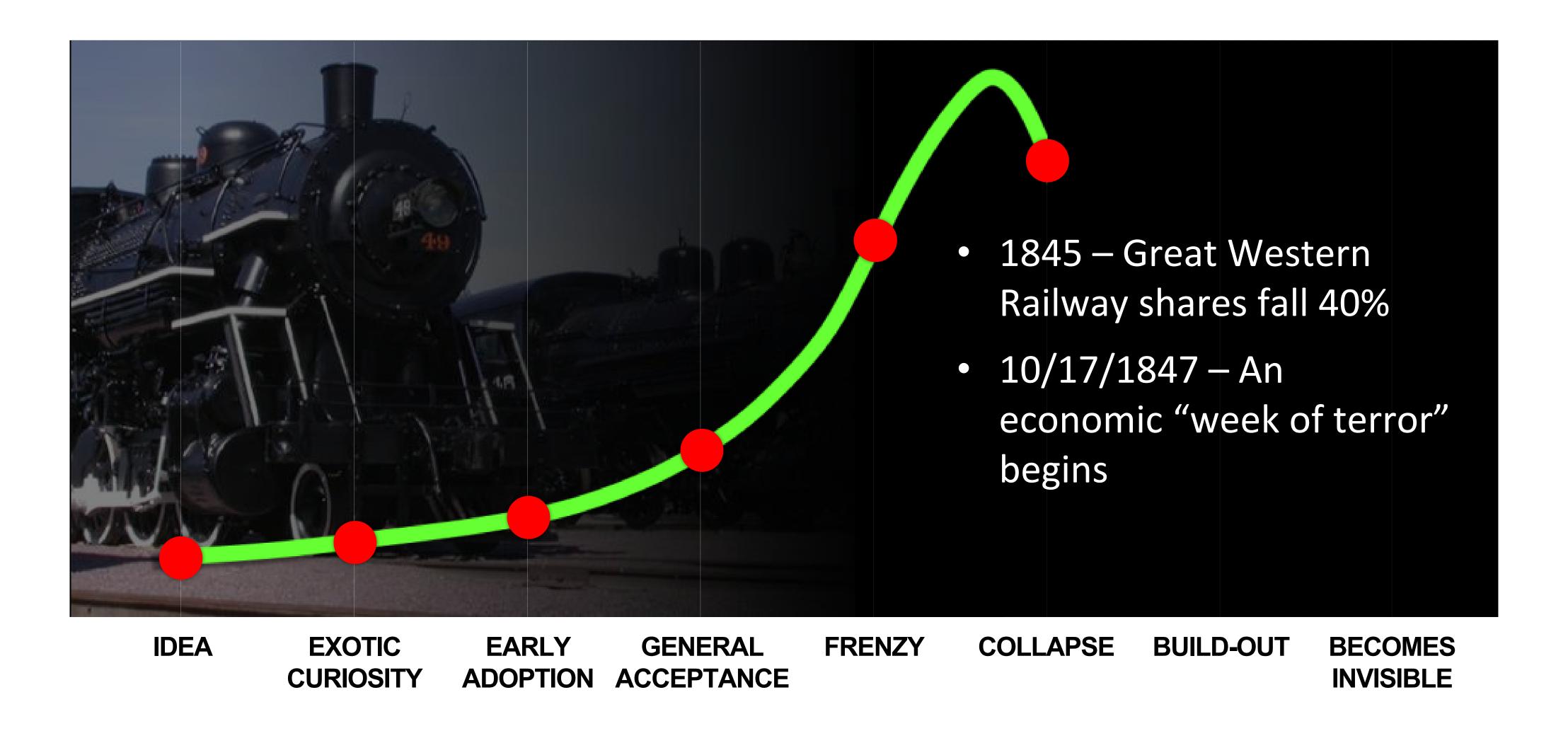
### Frenzy





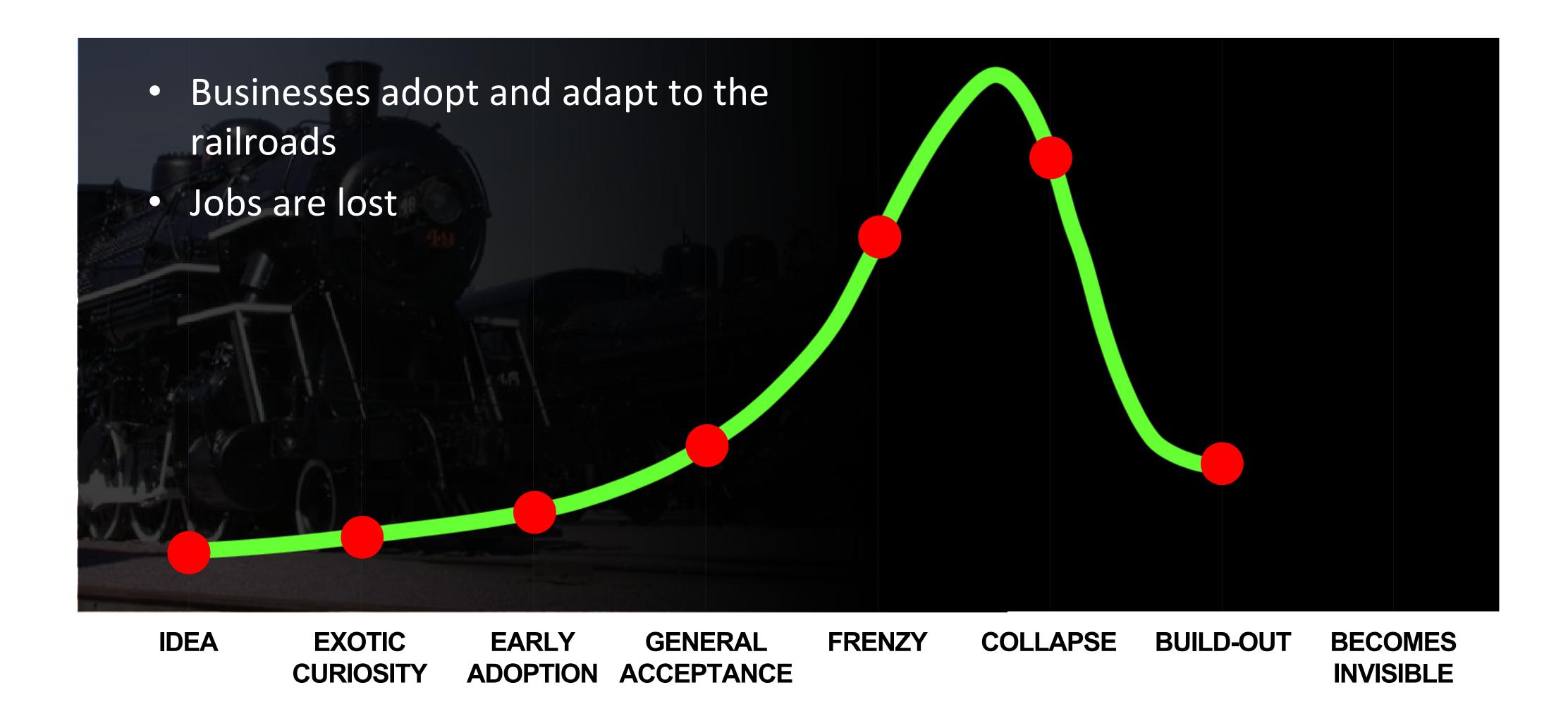
# Collapse





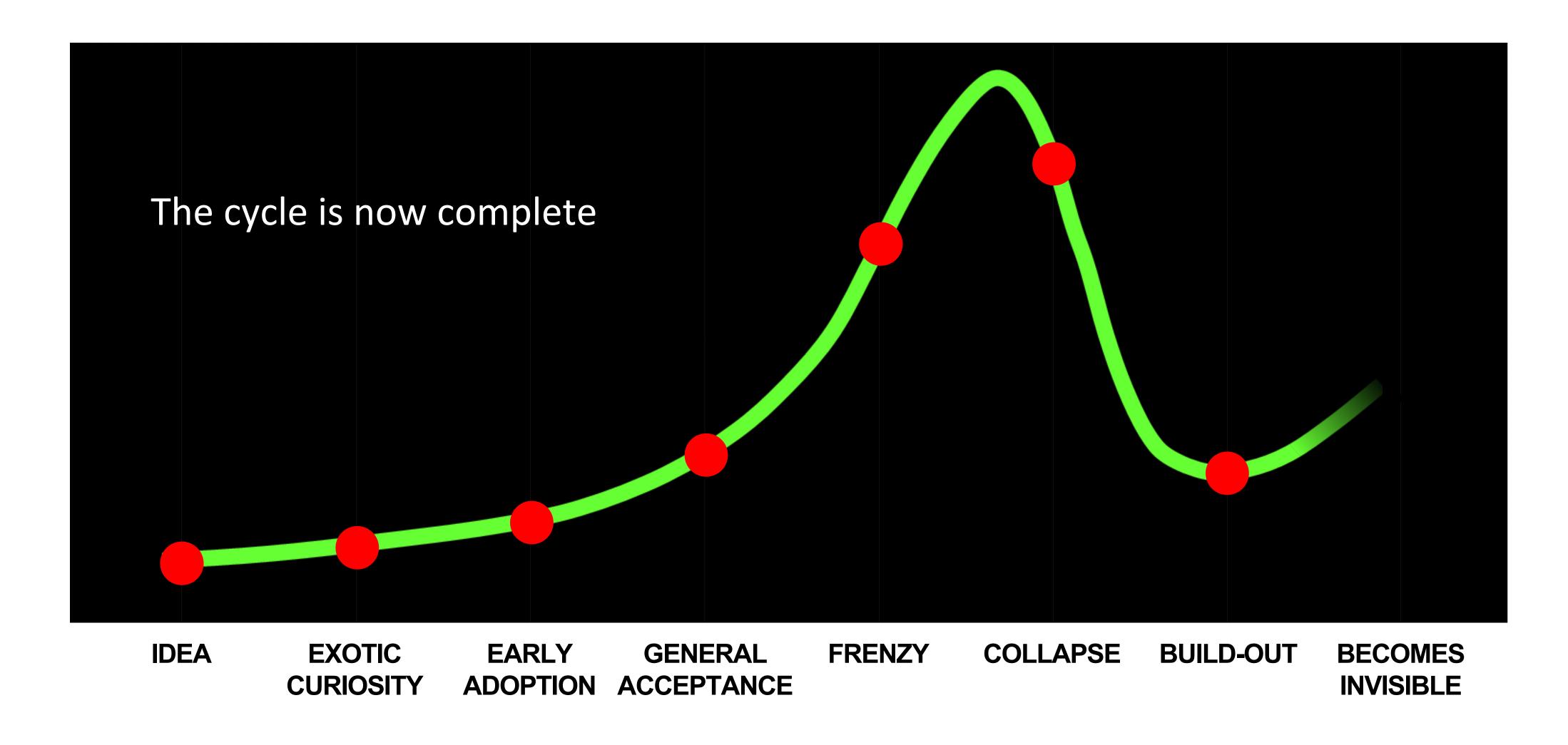
#### Final Build-out





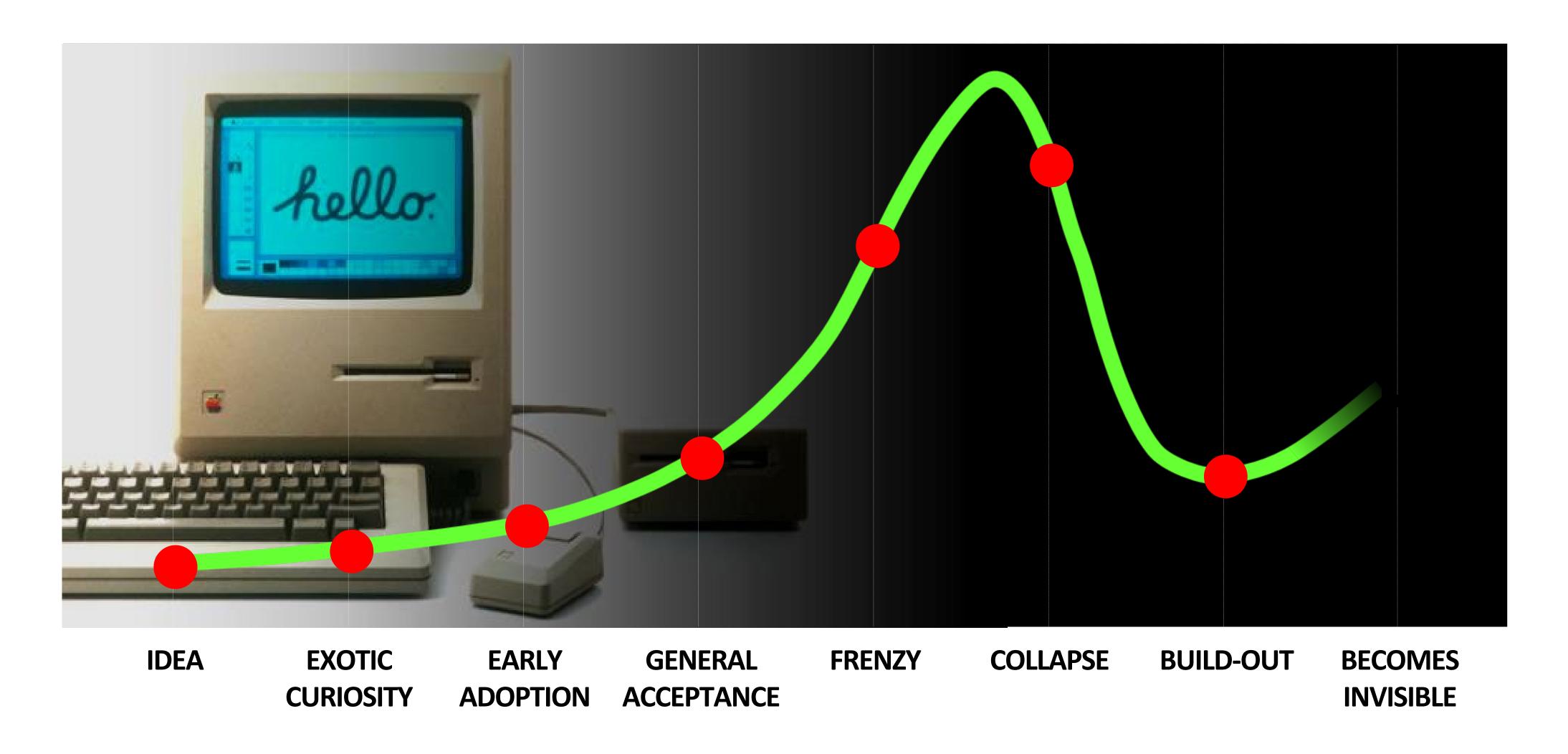
#### It Becomes Invisible





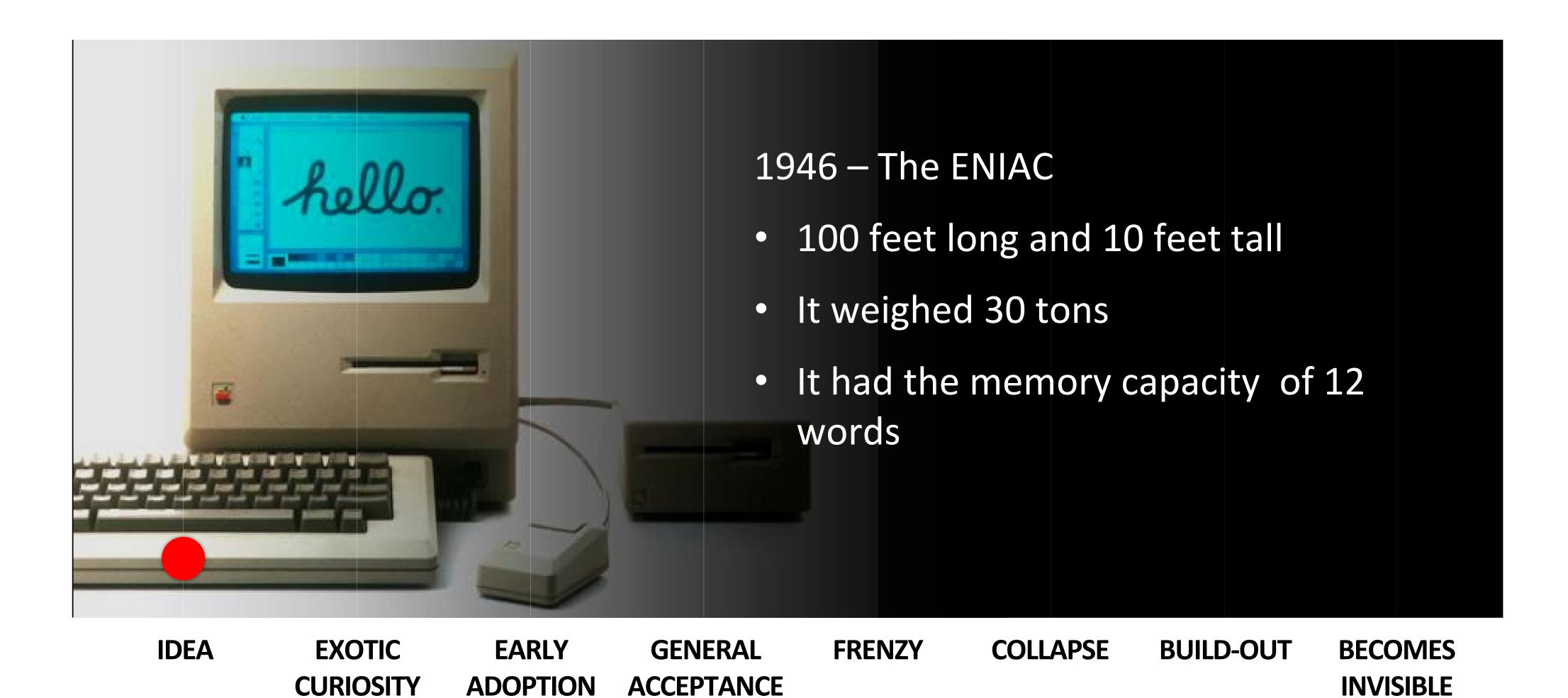
# **Information Technology**





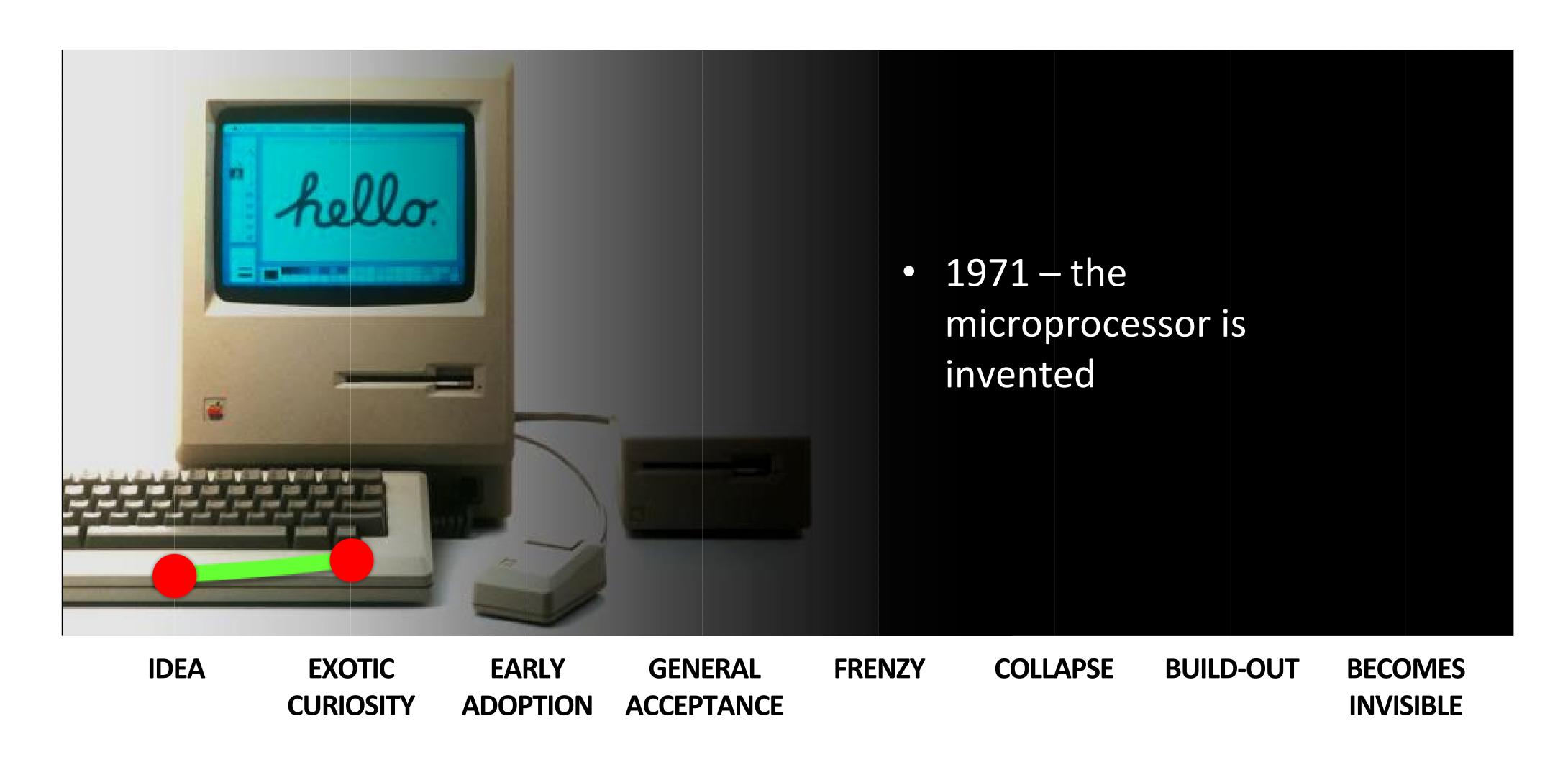
#### Idea





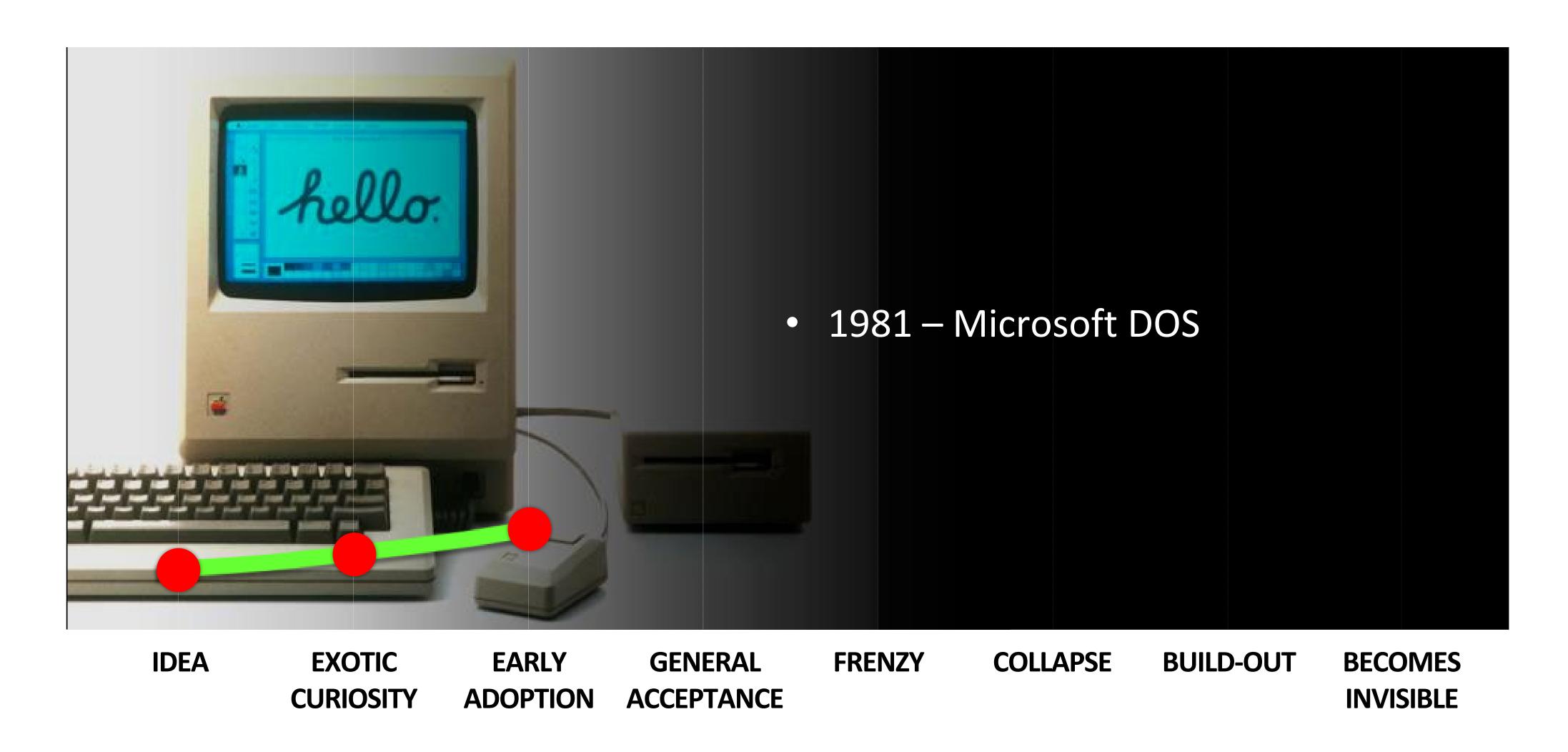
# **Exotic Curiosity**





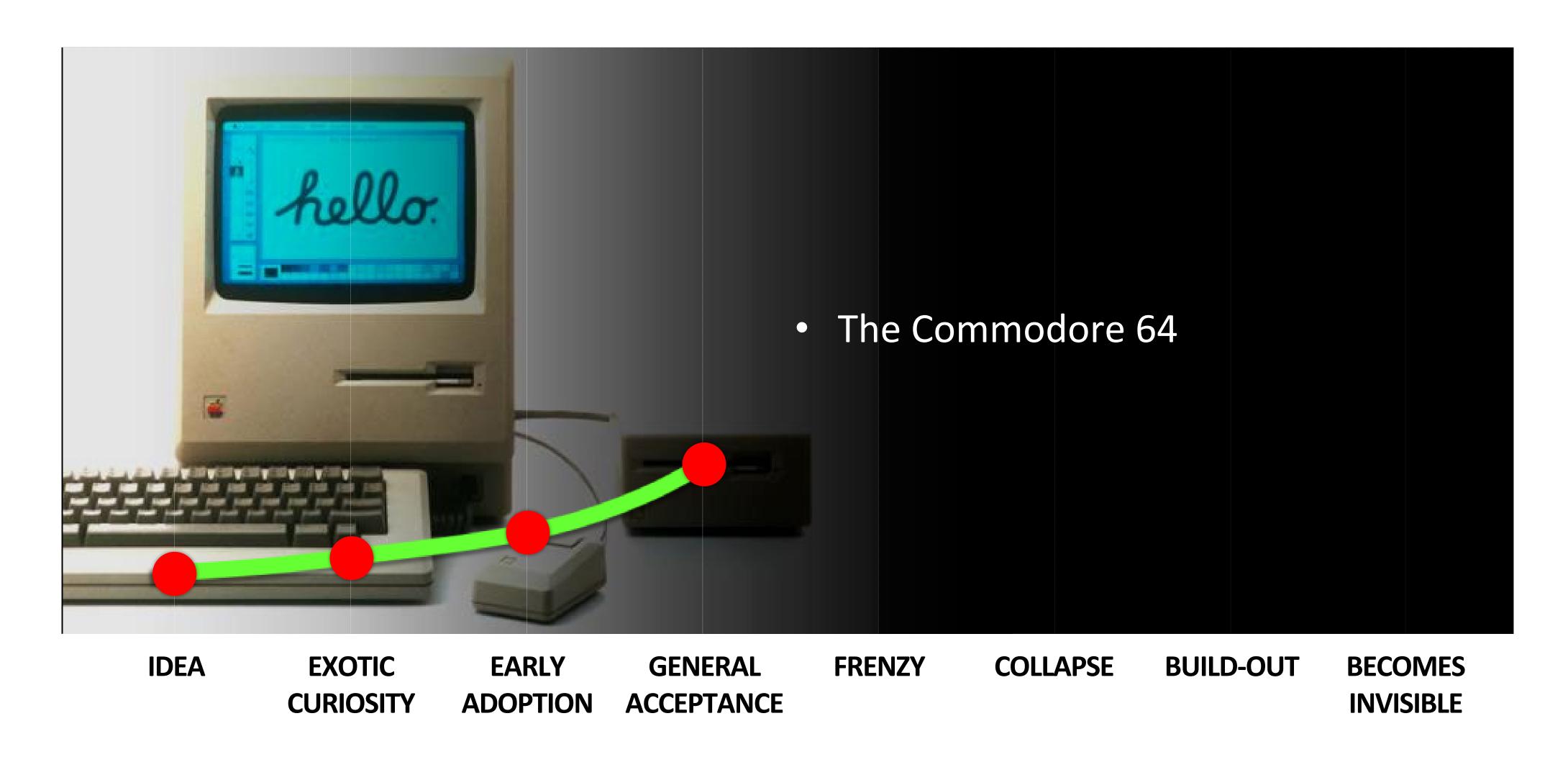
# **Early Adoption**





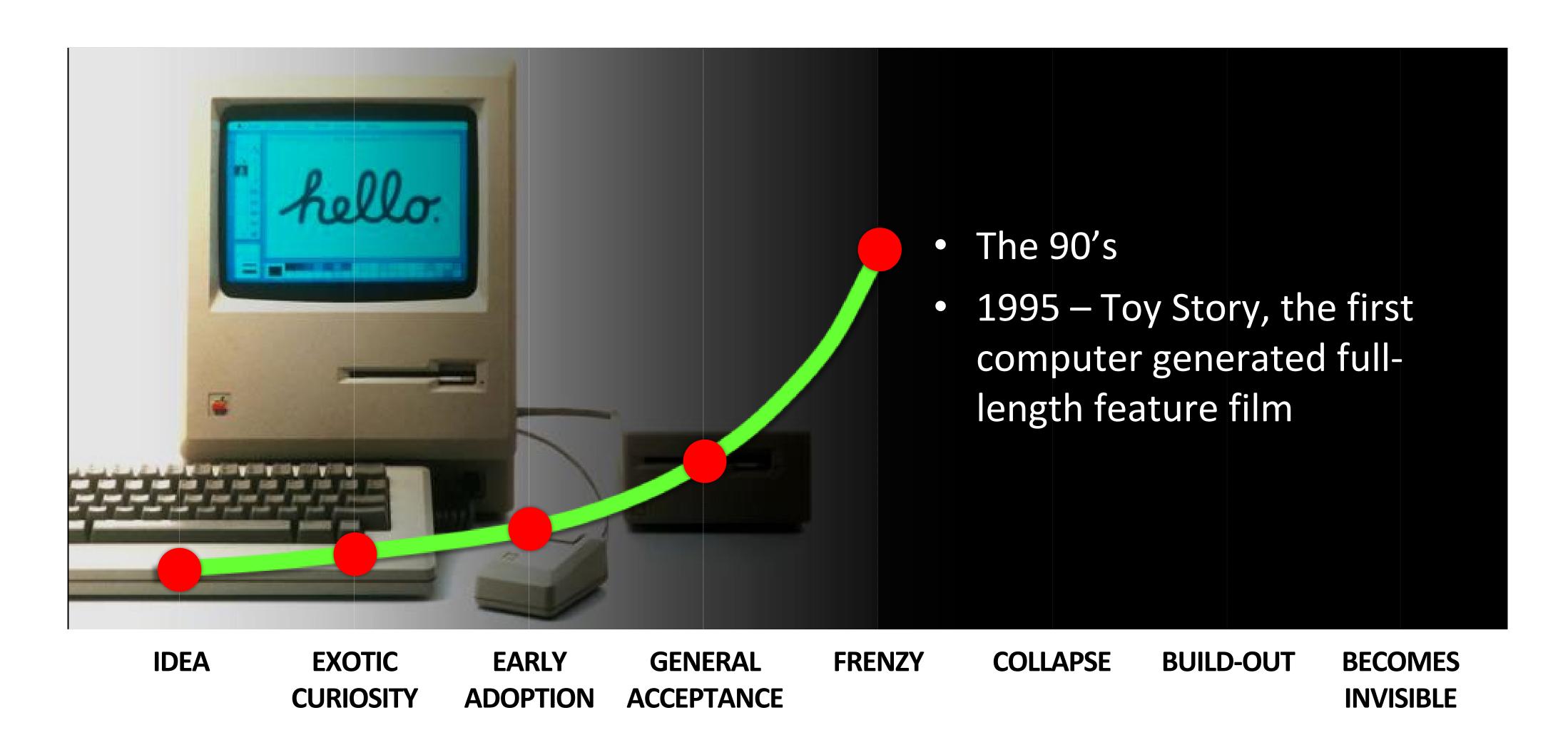
# **General Acceptance**





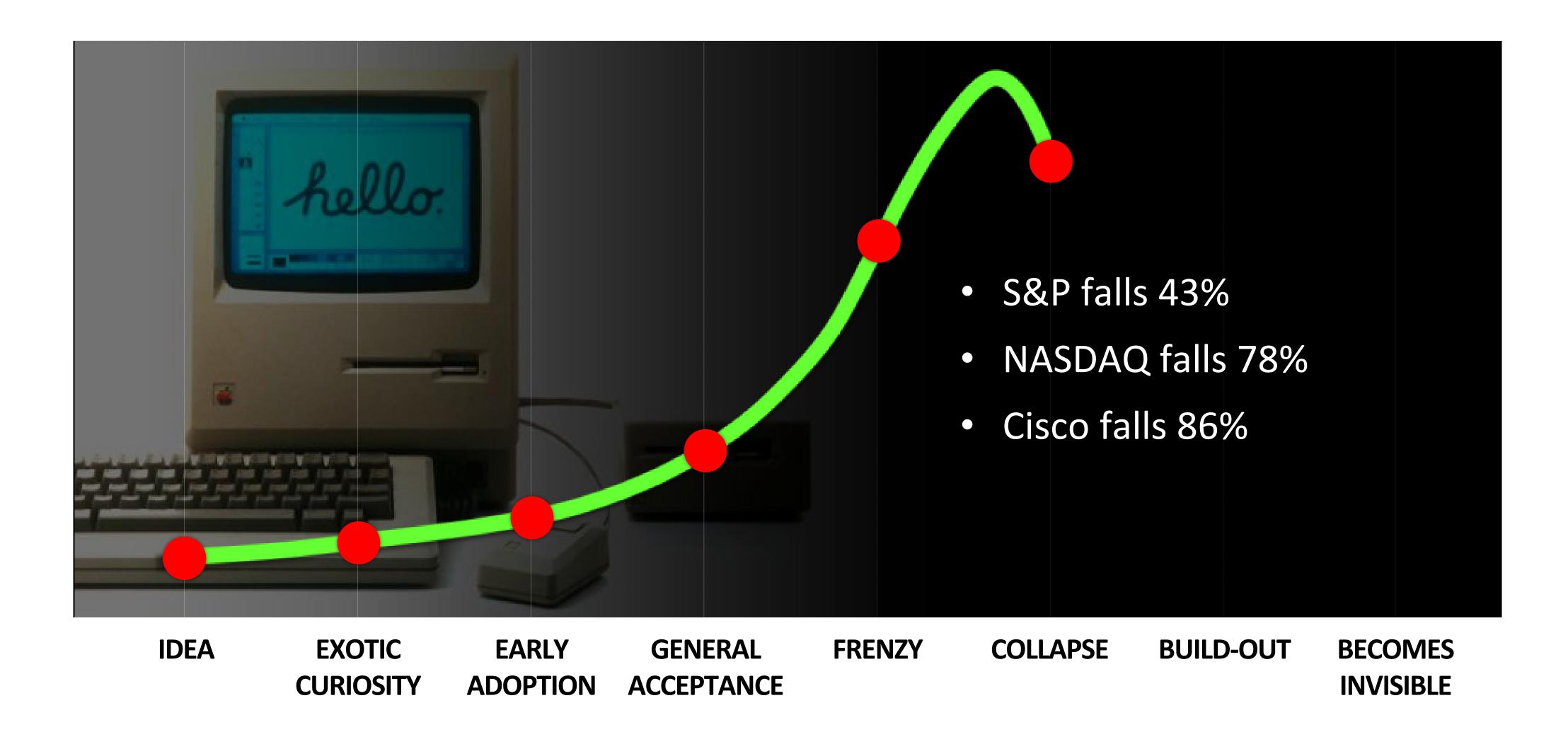
### Frenzy





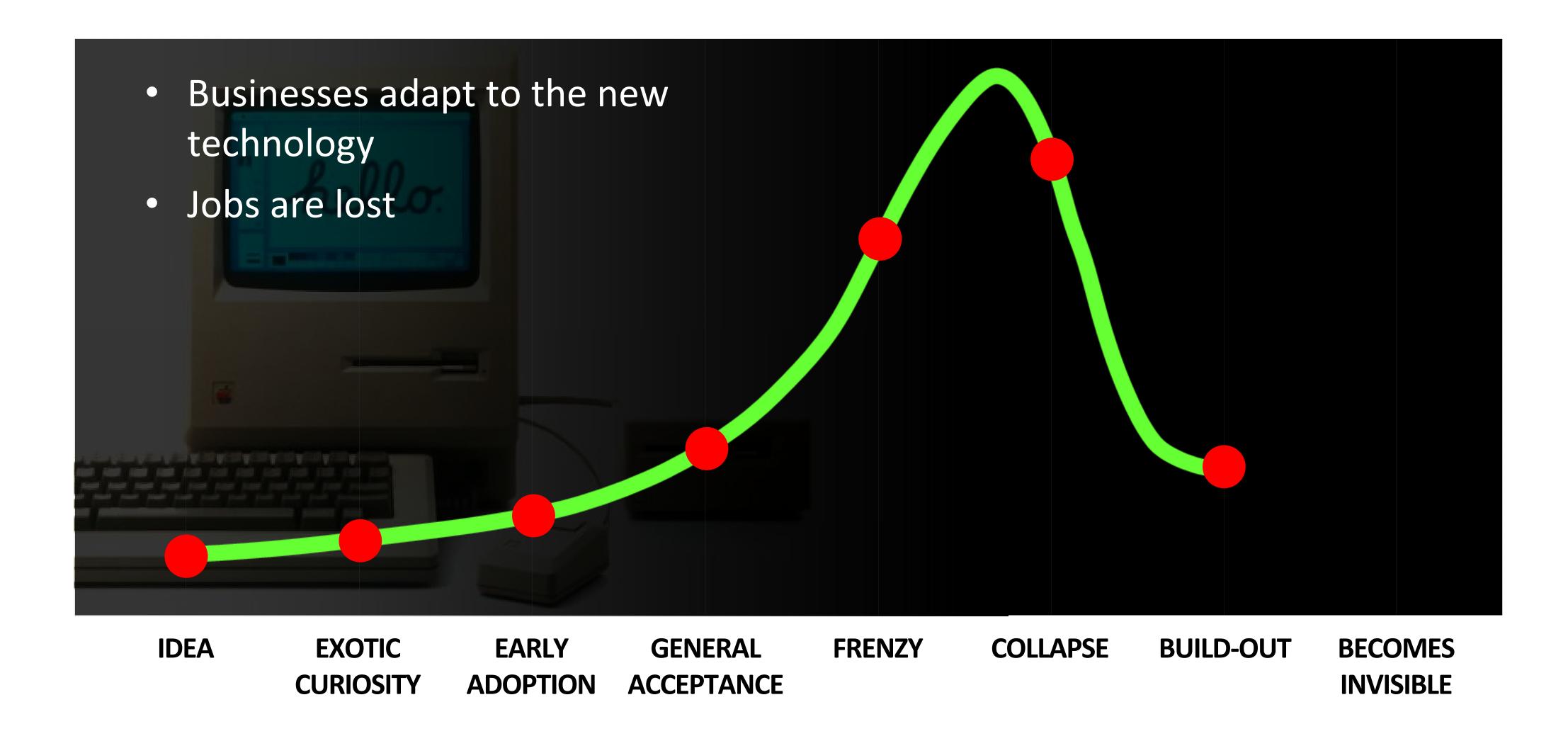
# Collapse





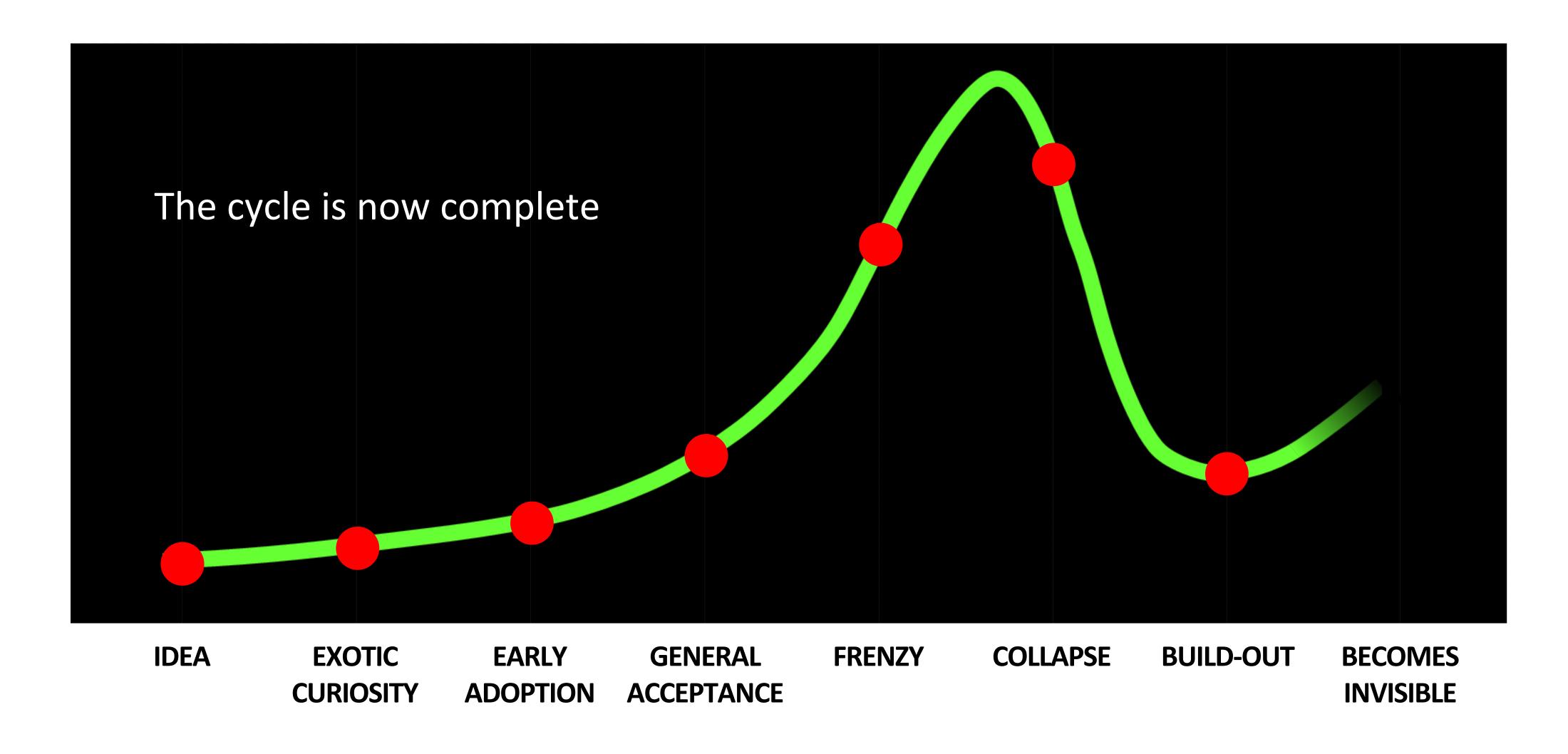
#### Final Build-out





#### It Becomes Invisible







# Where are we in the computer revolution?



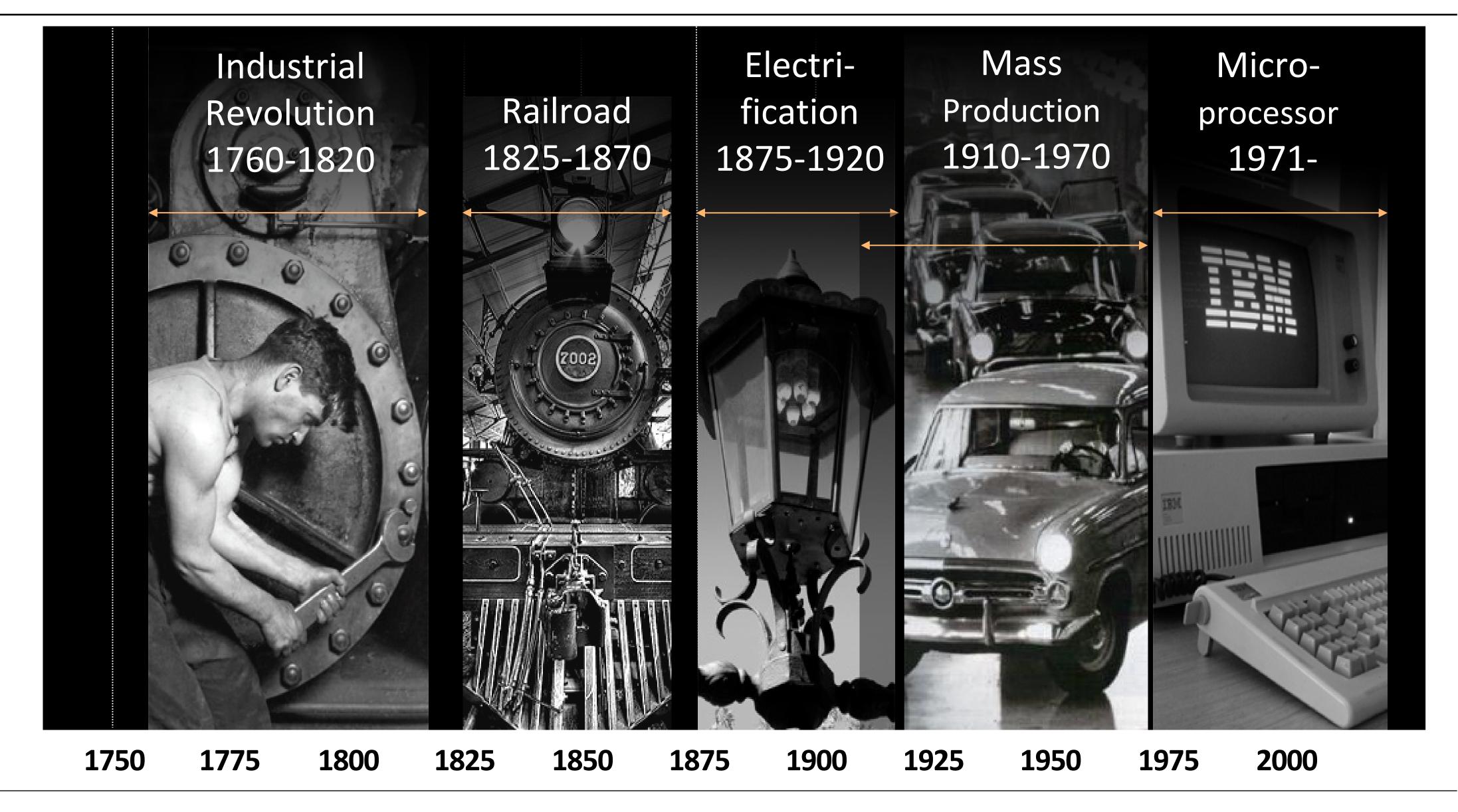
# Is technology invisible?



Industrial Revolution	1760 — 1820	60 Yrs.
Railroad	1825 — 1870	45 Yrs.
Electrification	1875 — 1920	45 Yrs.
Mass Production	1910 — 1970	60 Yrs.
Microprocessor	1971	50 Yrs.

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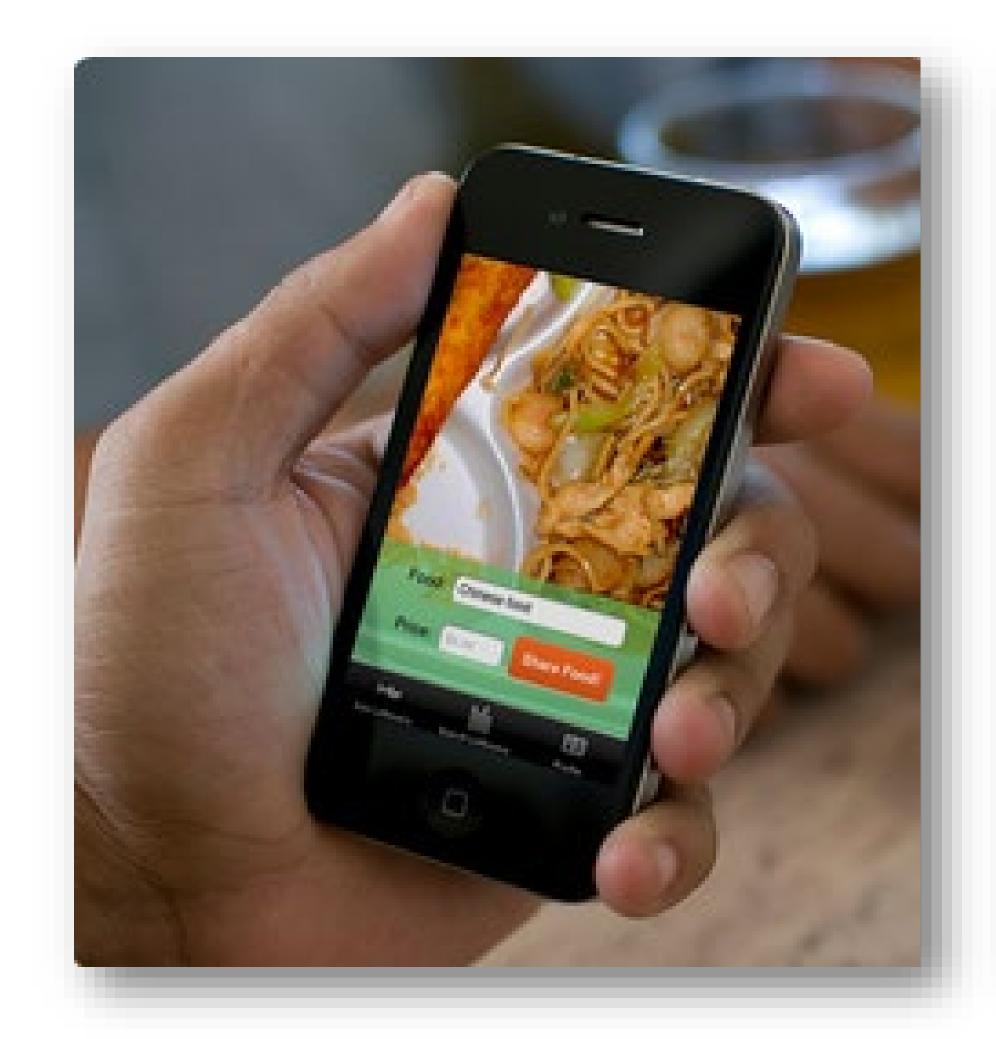


"Everything that can be invented, has been invented."

- Dr. Charles Duell, Director of U.S. Patent Office















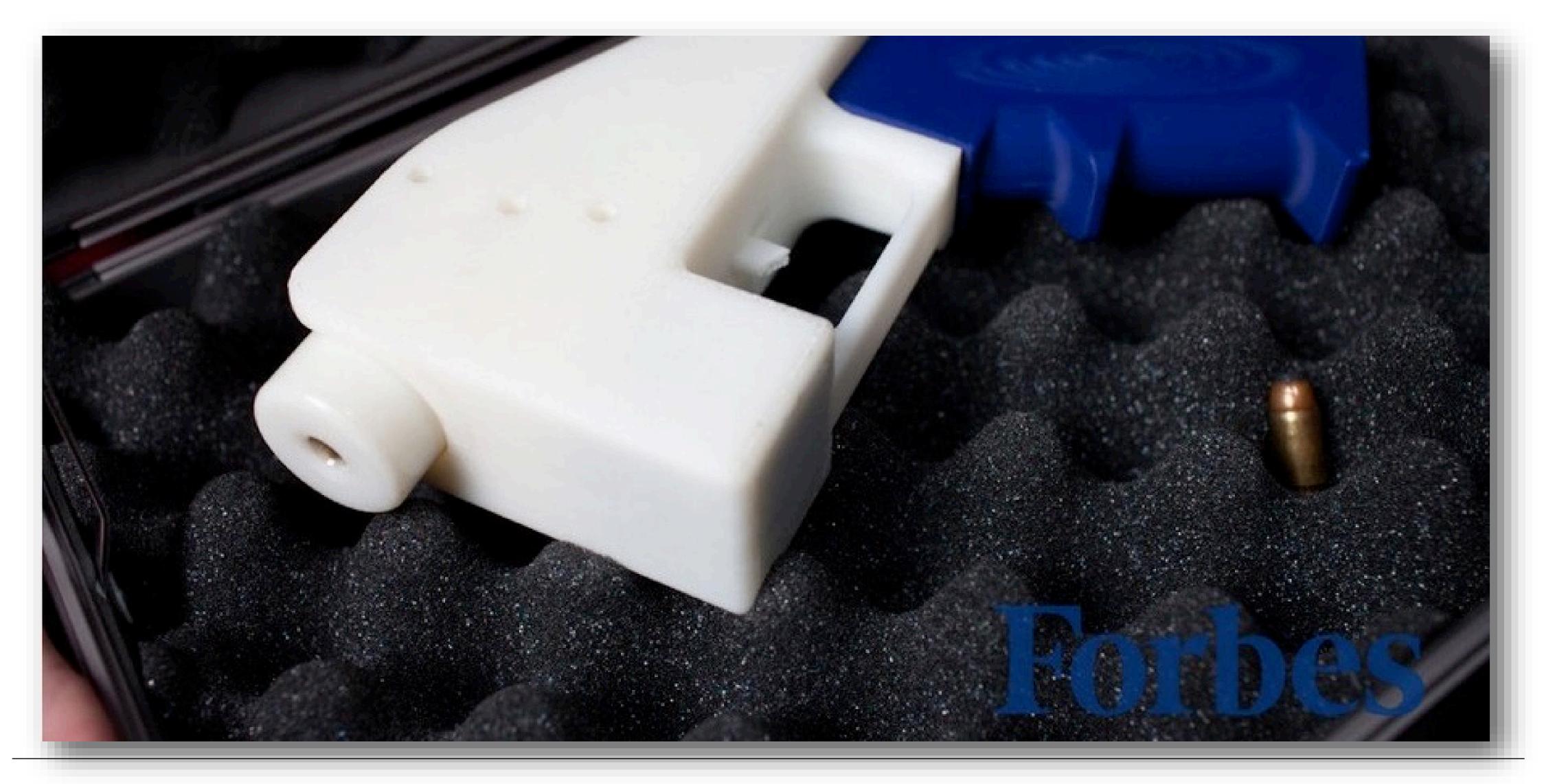






# World's First 3D Printed Gun



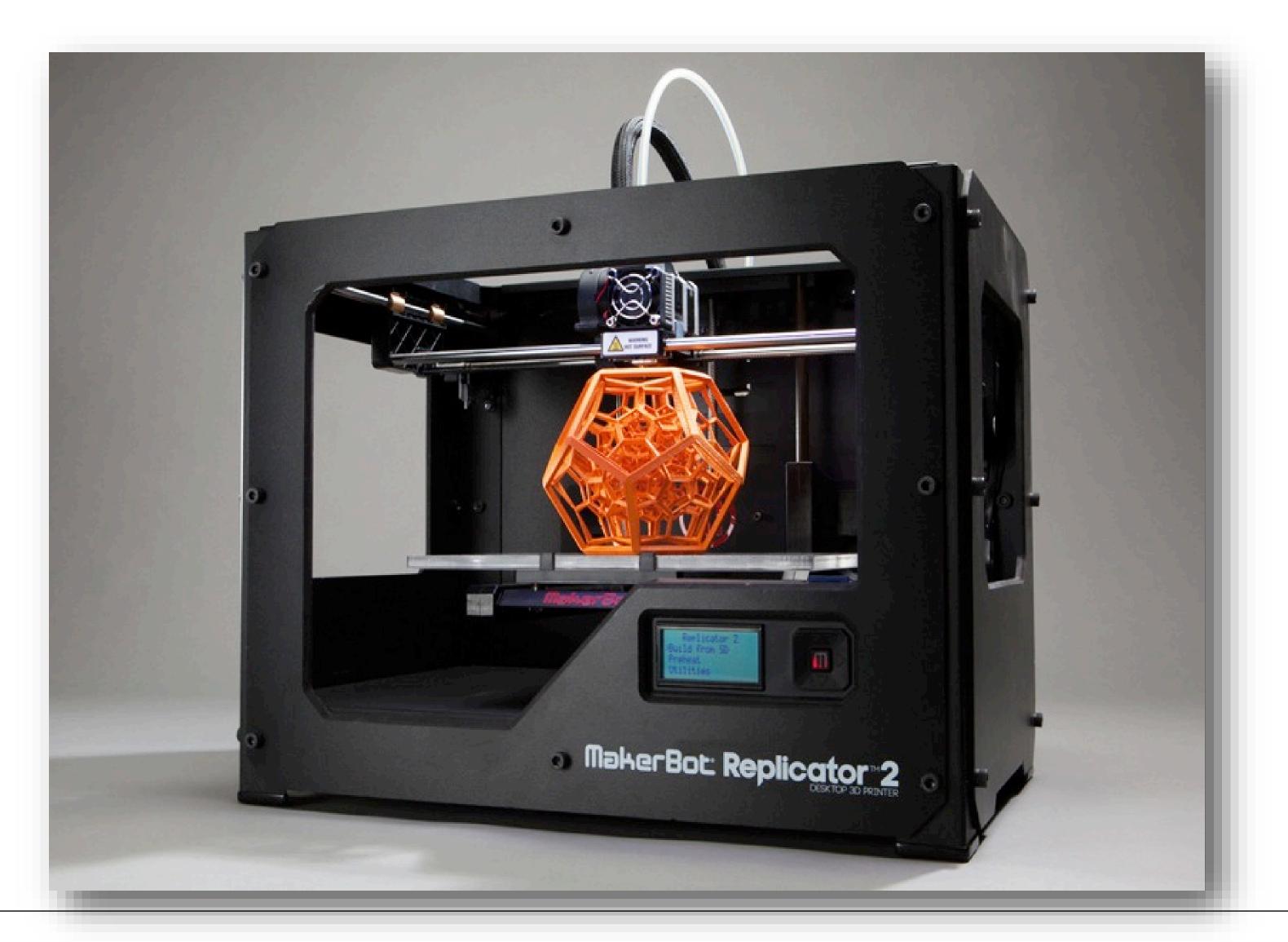






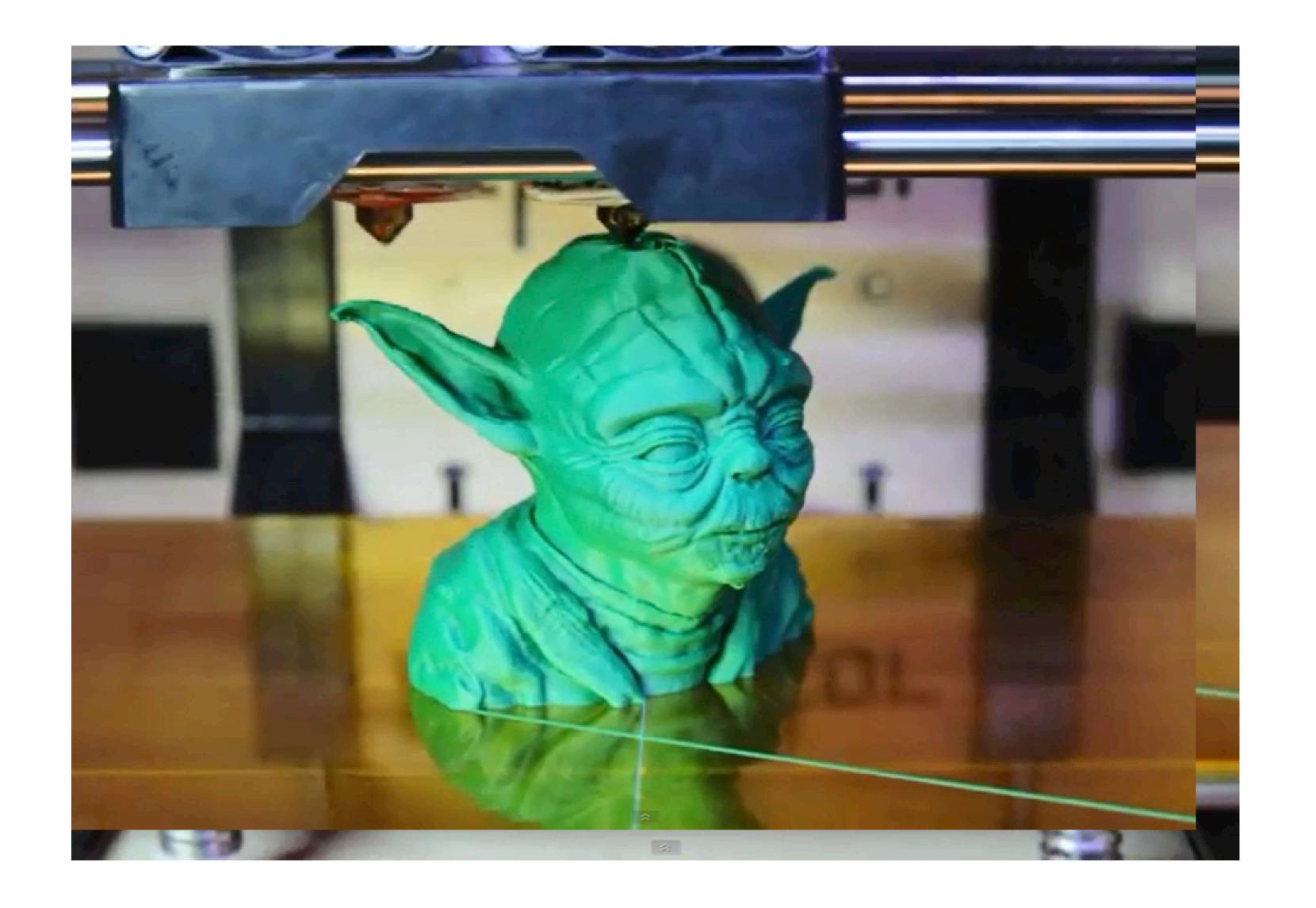
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# SKYFALL

Directed by Sam Mendes

# Estimated Value: \$4,600,000











# MailOnline

The secret behind James Bond's Aston Martin DB5: How Skyfall producers used 3D PRINTED cars to spare the priceless original

- 3D printing was used to create models a third of the size of the real thing
- The replica mini-cars were used throughout the film, and blown up in a key scene

By Mark Prigg

PUBLISHED: 06:29 EST, 13 November 2012 | UPDATED: 08:51 EST, 13 November 2012

James Bond's Aston Martin DB5 was put through a series of huge explosions and stunts during the filming of Skyfall, including one scene which saw the priceless vehicle explode in flames

However, producers have revealed the secret behind the stunts - if they lost a car, they could simply print another.

Three replica cars, a third of the size of the real thing, were created using a large scale 3D printer.

The models double for the now priceless original vehicle from the 1960s in the film's action scenes.

The models were made by British firm Propshop Modelmakers Ltd, which specialise in the production of film props, and used Voxeljet to print the cars.

'Propshop commissioned us to build three plastic models of the Aston Martin DB5,' voxeljet CEO Dr. Ingo Ederer.

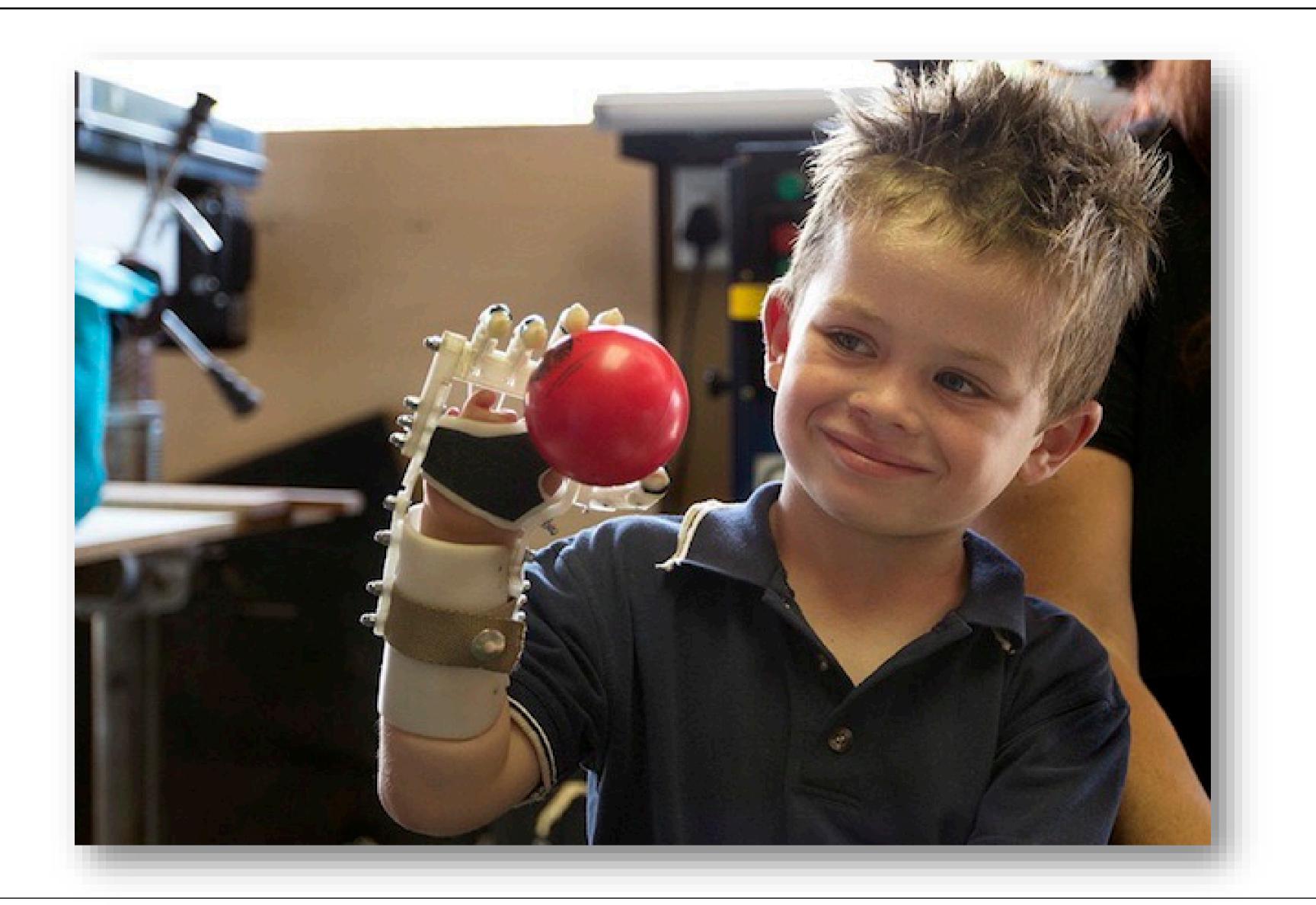
"If they lost a car, they could simply print another one."



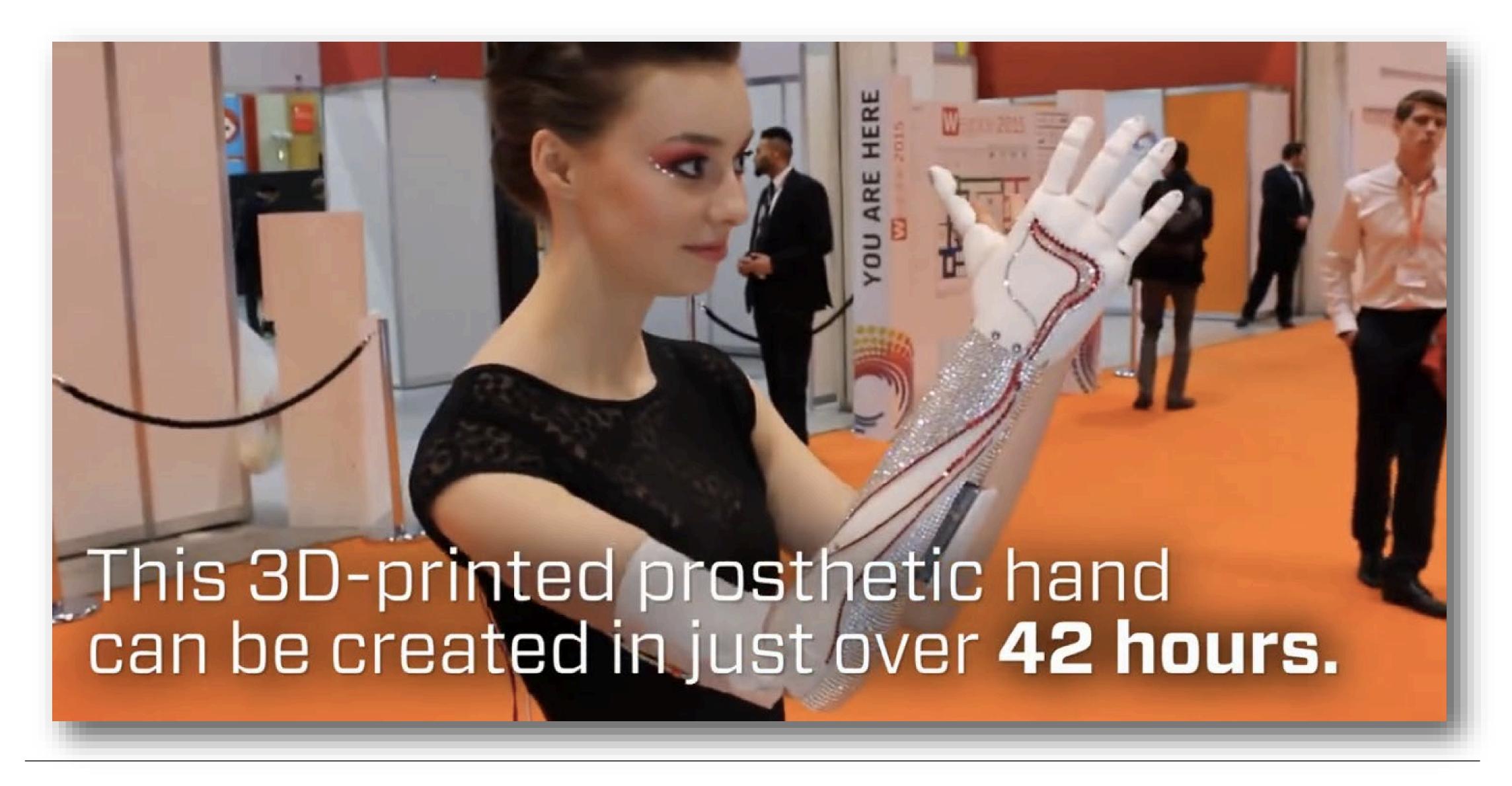


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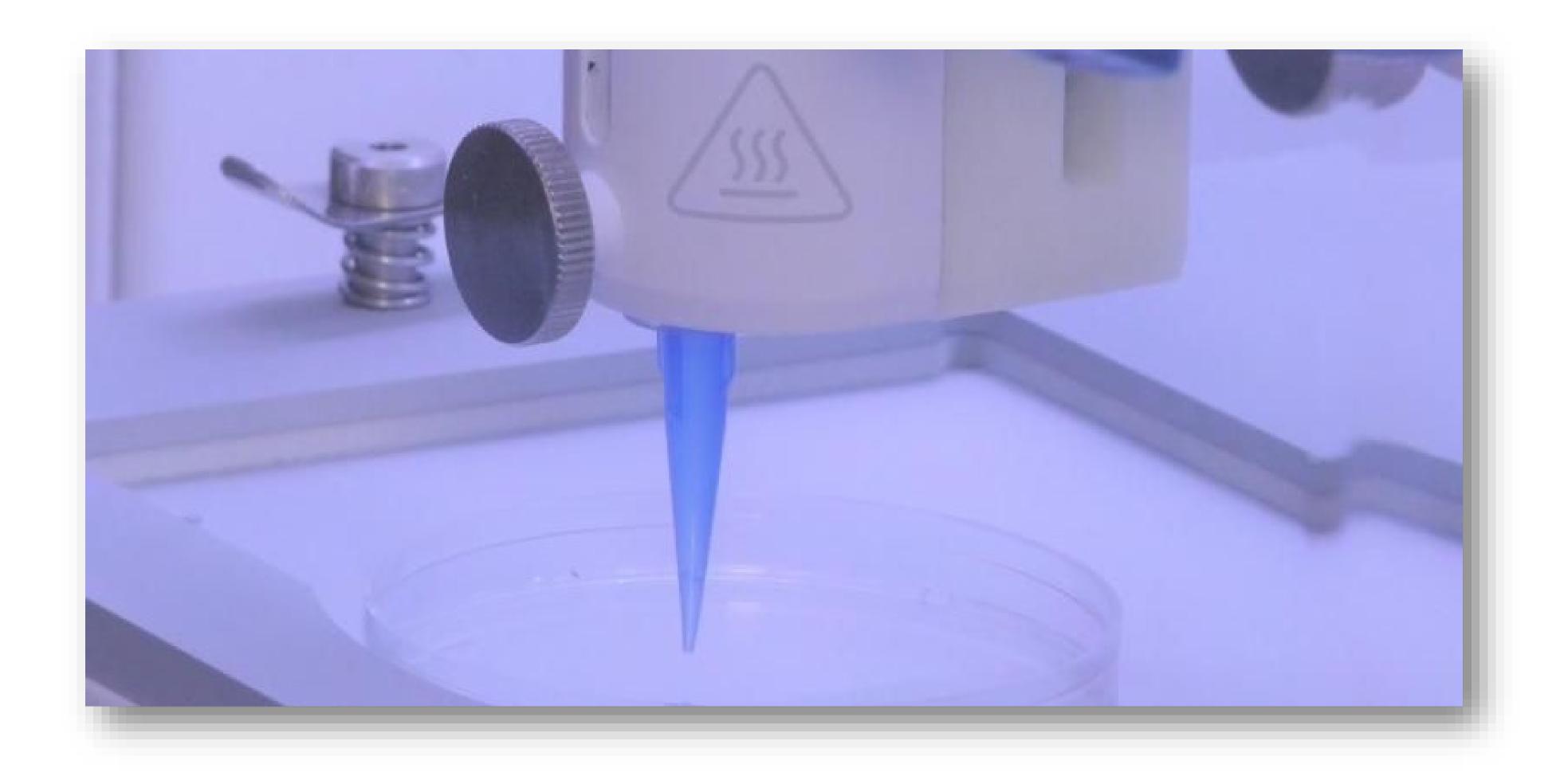


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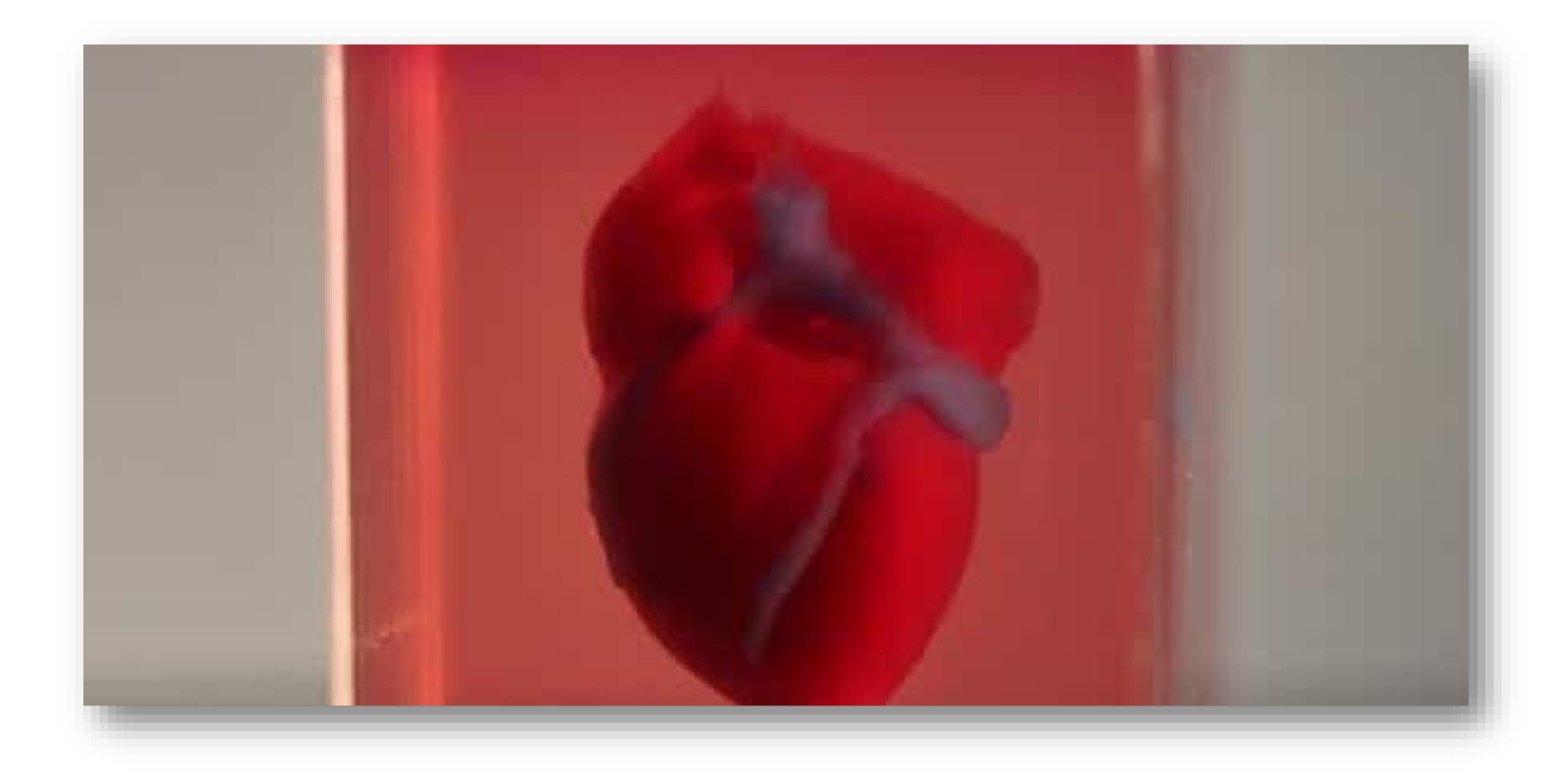
Vessels - November 18, 2019



#### Researchers Just 3D Printed The First-Ever Complete



#### Heart Using Human Tissue - April 16, 2019







## 2 grams of graphene aerogel





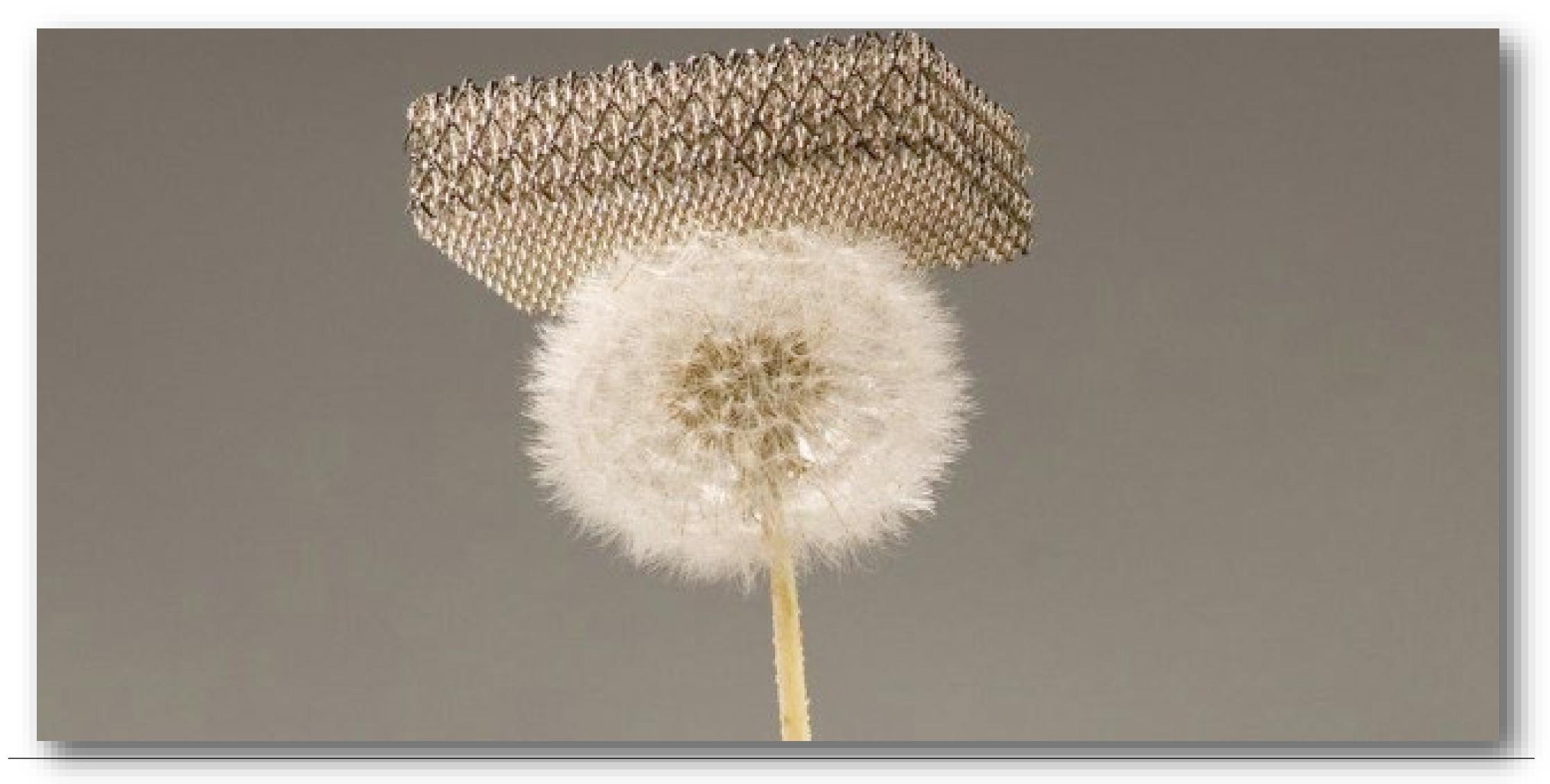




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# Graphene latticework





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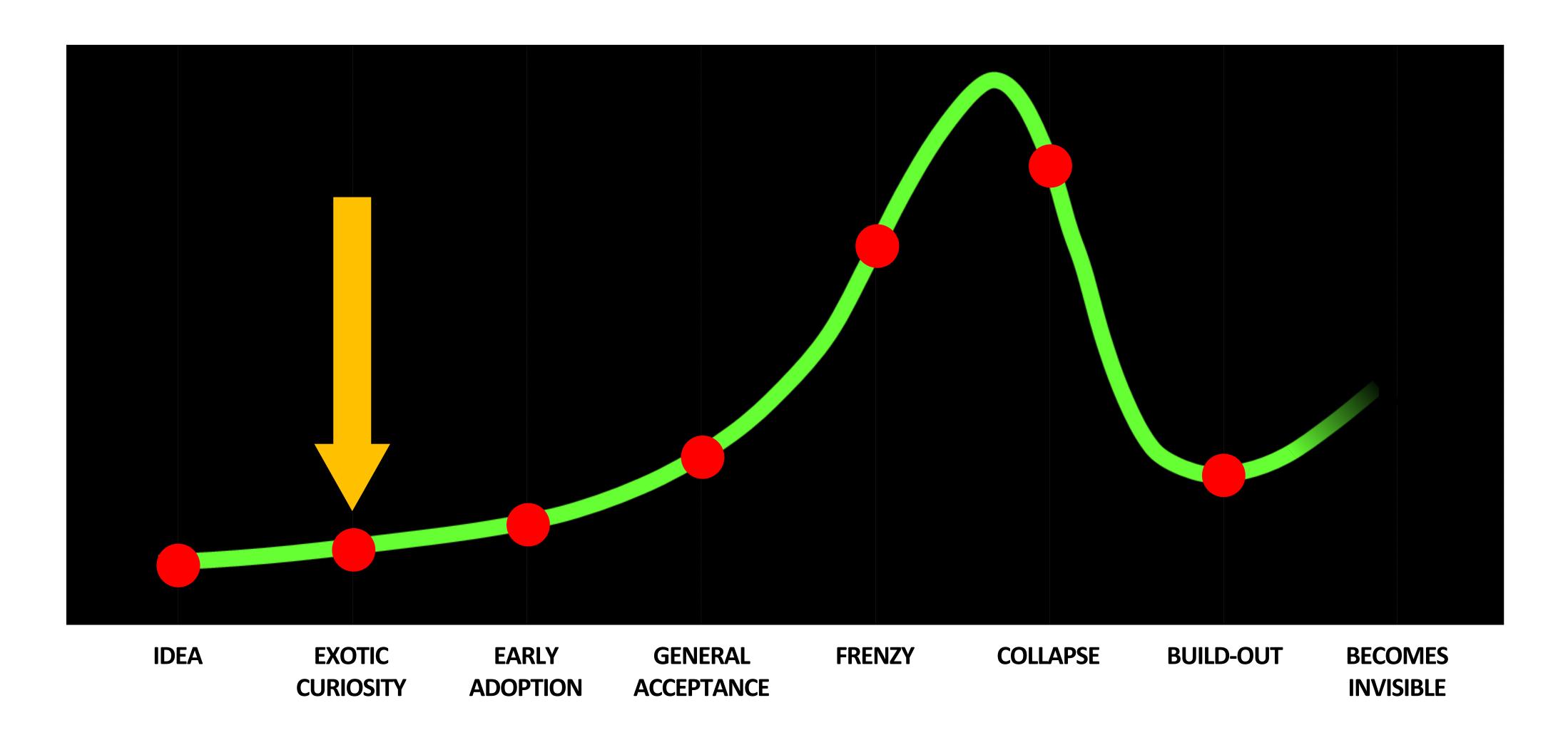
## Graphene battery recharges in 4 minutes





### Graphene – where are we?



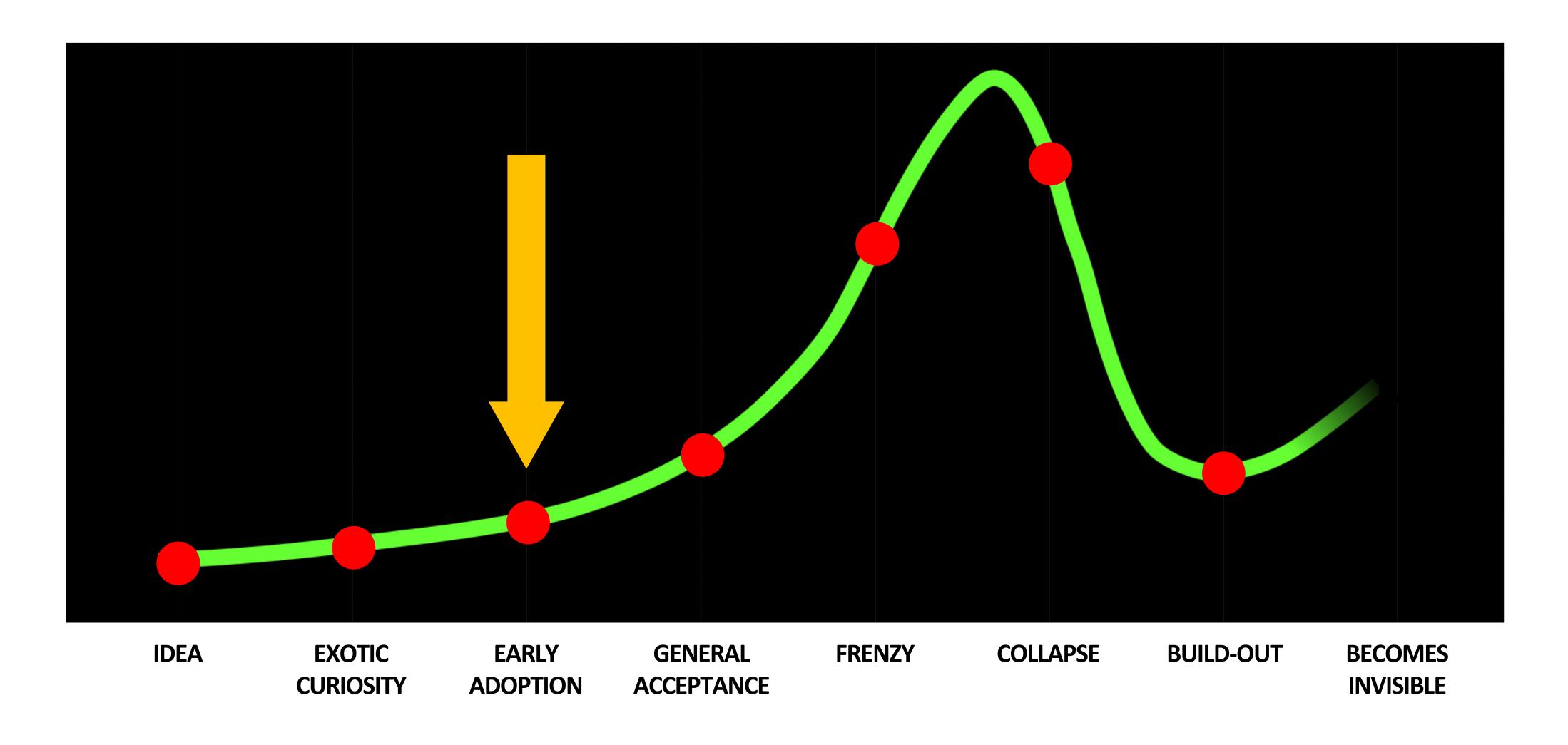






#### Biotech – where are we?







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## TALKING POINTS

BY MARK ZINDER

Here are this week's talking points: the right thing to say when trying to make a point.

Roughly 60% of NBA players and 78% of the NFL file for bankruptcy within 5 years of retiring.

-Money.cnn.com

Today, an average worker can compete in 1 hour the same amount of work that it took them 2 hours to finish in 1977.

-Department of Labor

"Markets walk up stairs but jump out windows."

-Anonymous

Between 1971 and 2017, the U.S. Fed Funds rate has averaged 5.8%.

-Thebalance.com

"The best way to rob a bank is to own one."

-William Crawford









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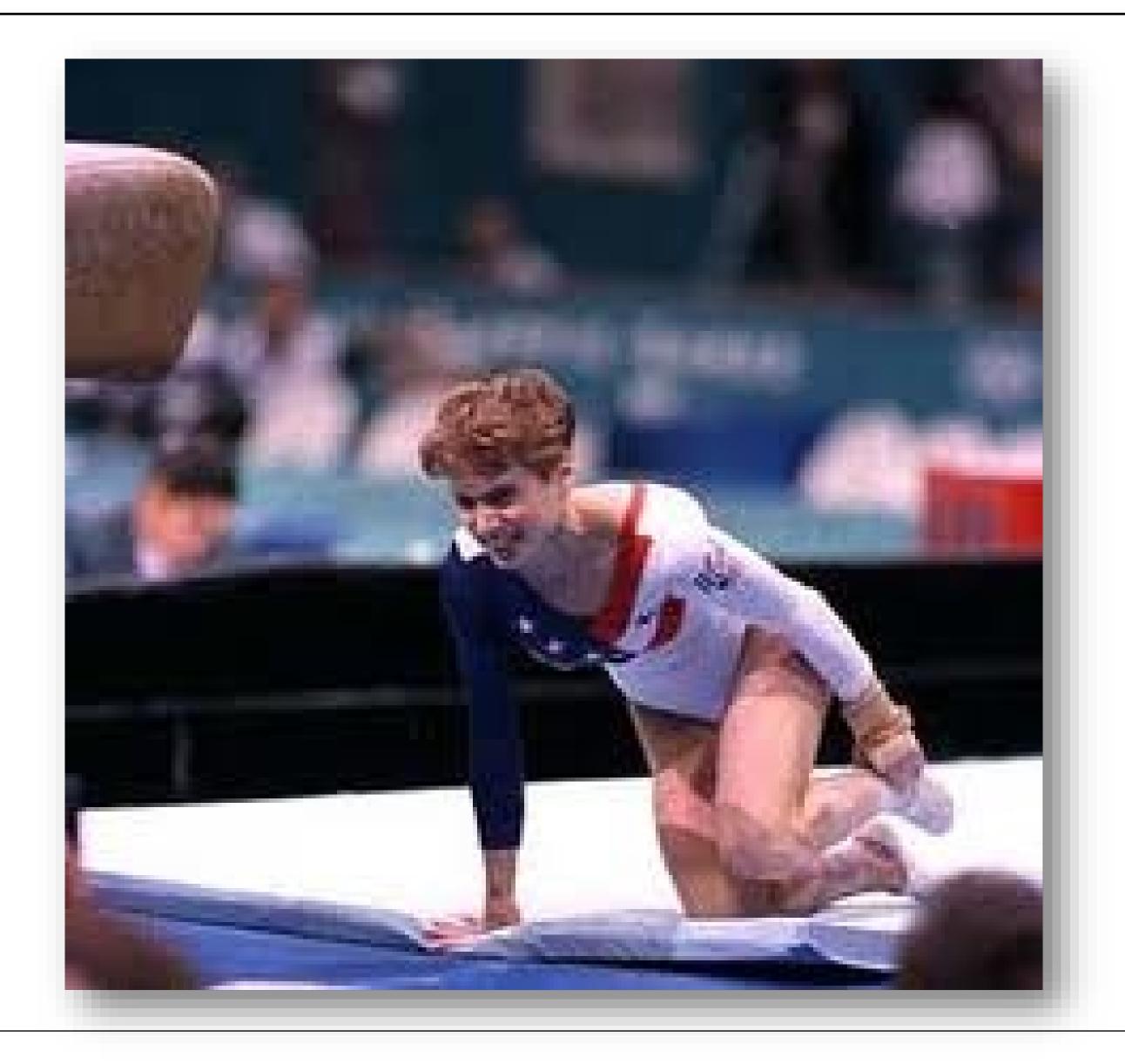
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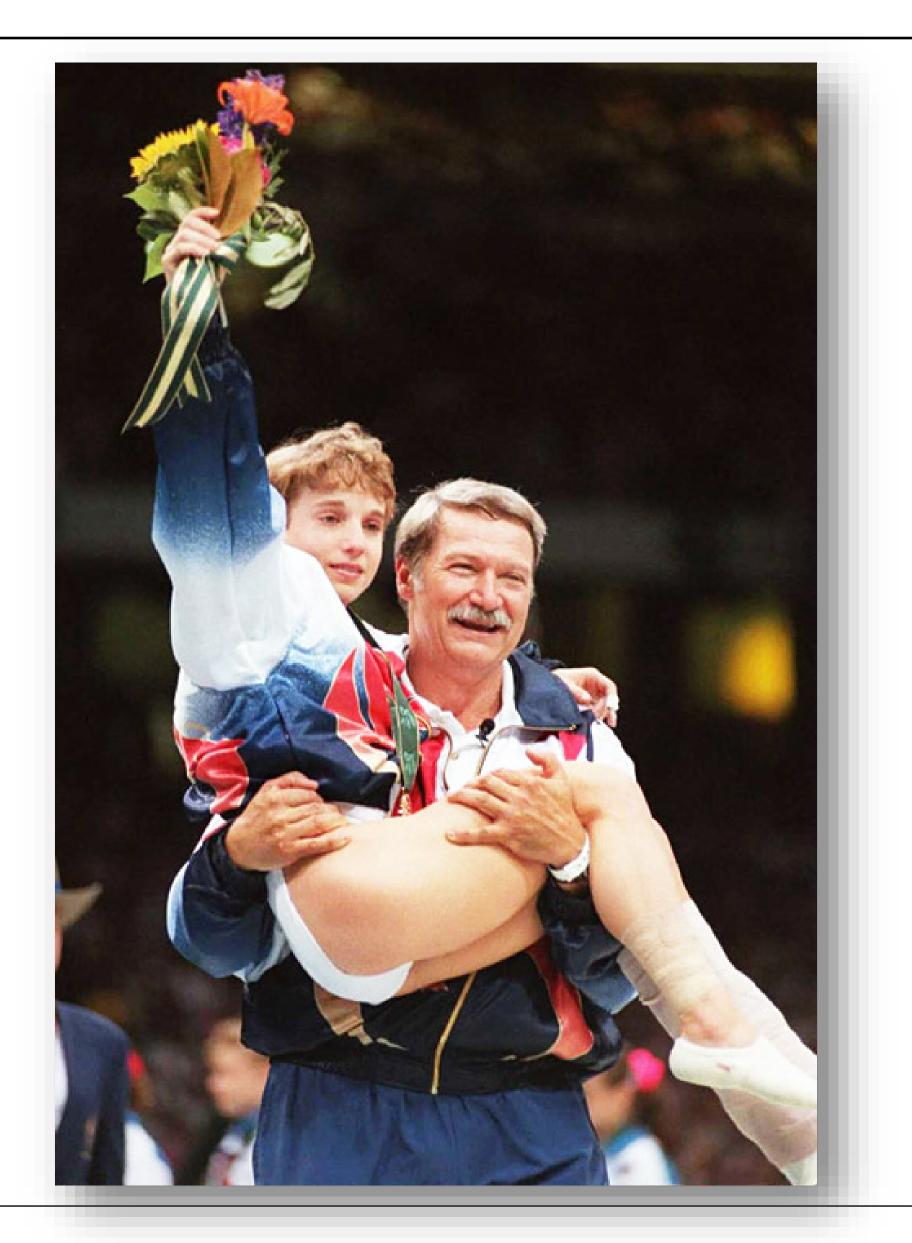












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# Thank You