# On-demand mobility ??

Bruce Landsberg – Senior Safety Advisor









# Other Attempts – not so successful





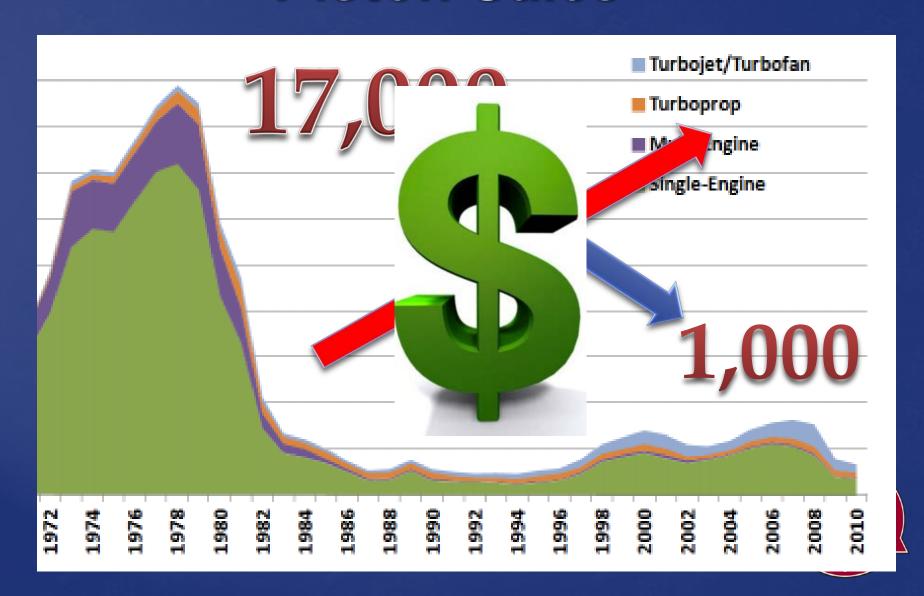


# Barriers

Cost & Complexity



#### **Piston Sales**



### LIABILITY

"Even when I win - it only costs me \$2,000,000!"



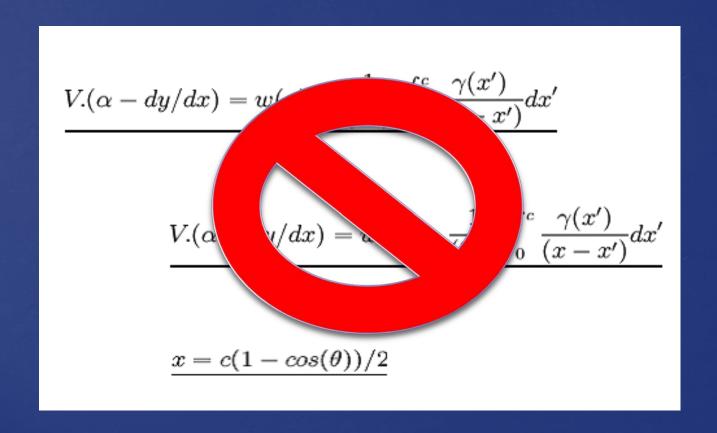


# "Selling fewer – gotta raise the price ...."





# **Engineering Excitement??**







### New & Wonderful but.....





### Reliable and available...



### **Lotta Parts**



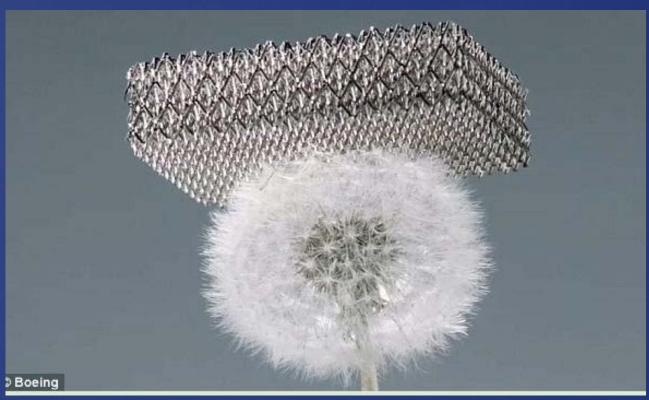


# **Many Fewer Parts**





# New Thinking....





# 3-D Printing?





# Low Volume - High Quality – Low Price ?



# Old - Really Old .....





# Safety Downloads?





### Flies itself....



# Smart autopilot – but cheap ( \$200 each...)

Fails once every 1000 flights (maybe) so...\*

Put in three – for voting purposes....



Some Math....

.001 x .001 X .001

Is a really small number!!!!

.0000000001



# Transition from Now to Future



# Infrastructure - Airports





# Pilots – Not so Many

Why?

Cost & Complexity



### **Limited Time**





#### We need some fast answers

- Better ways to build existing aircraft
- New engines to retrofit
- Better safety –
  maintenance monitoring
- ◆ Easier to fly (UAS Tech)







### Thank You !!!

