



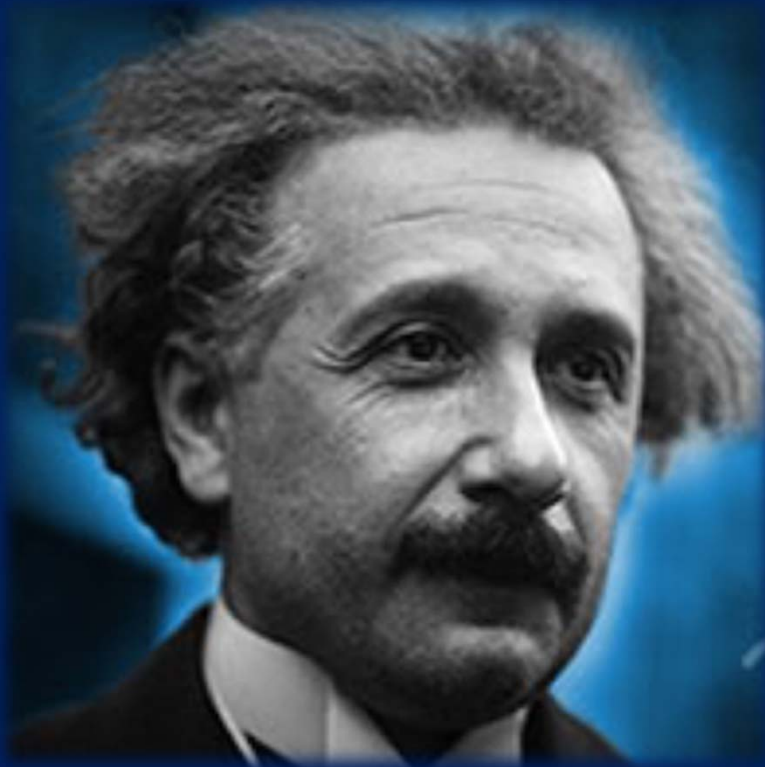
IMPACT OF SOCIAL AND TECHNOLOGY CHANGE ON SOLID WASTE

Jim Lapp

Canadian Representative

Solid Waste Association of North America

BEGINNING THOUGHT



The future is an unknown, but a somewhat predictable unknown. To look to the future we must first look back upon the past. That is where the seeds of the future were planted. I never think of the future. It comes soon enough.

Albert Einstein

WHAT IS THIS ABOUT?

- Social Change
- Technology Change
- Changing Wastes
- Consequences
- What About the Future?



SOCIAL CHANGE

Nunavut example















CONSEQUENCE



LACK OF INFRASTRUCTURE



LACK OF RESOURCES

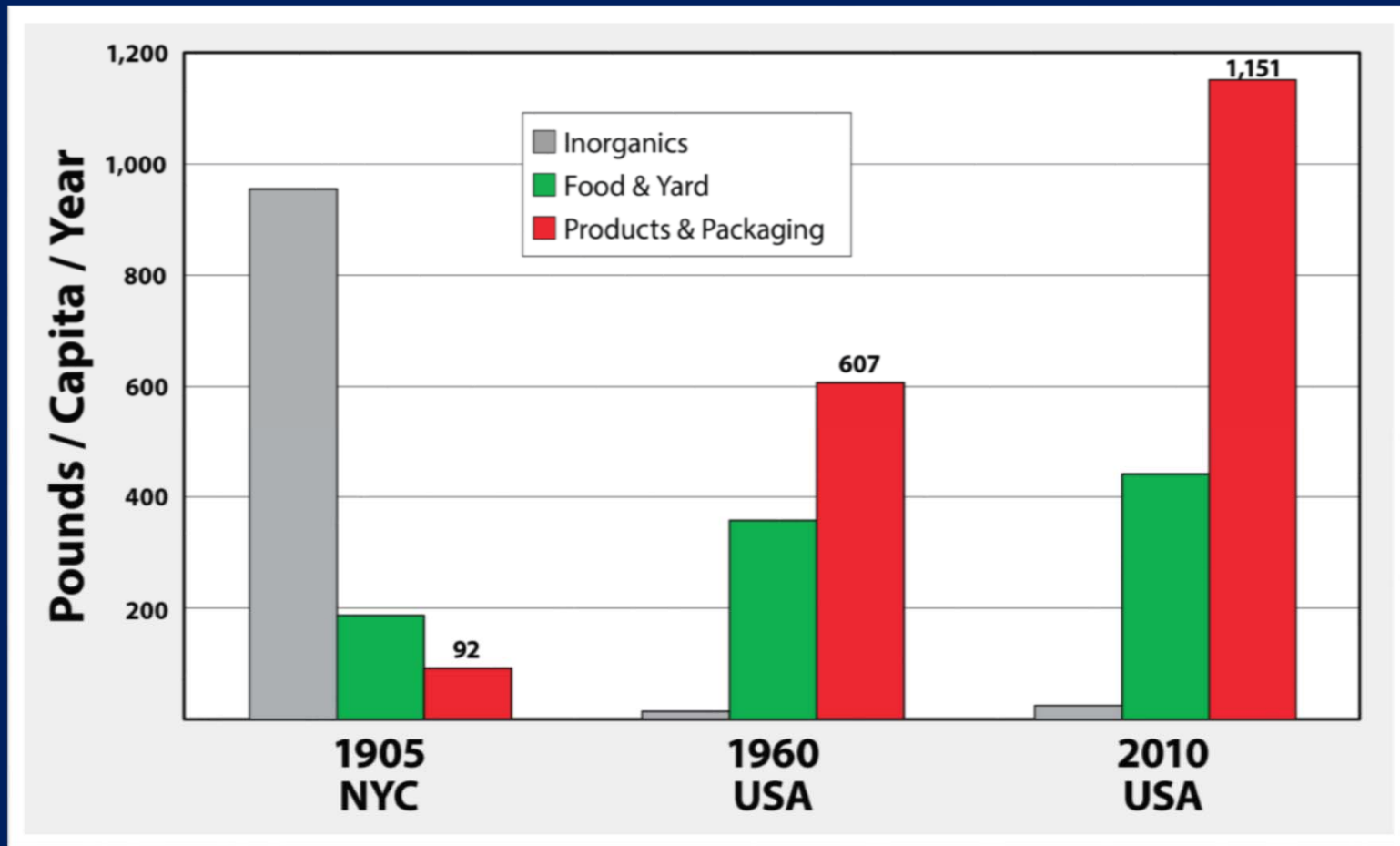


WHERE ARE WE GOING?



WASTE COMPOSITION

CHANGES WITH SOCIAL AND TECHNOLOGY ADVANCES



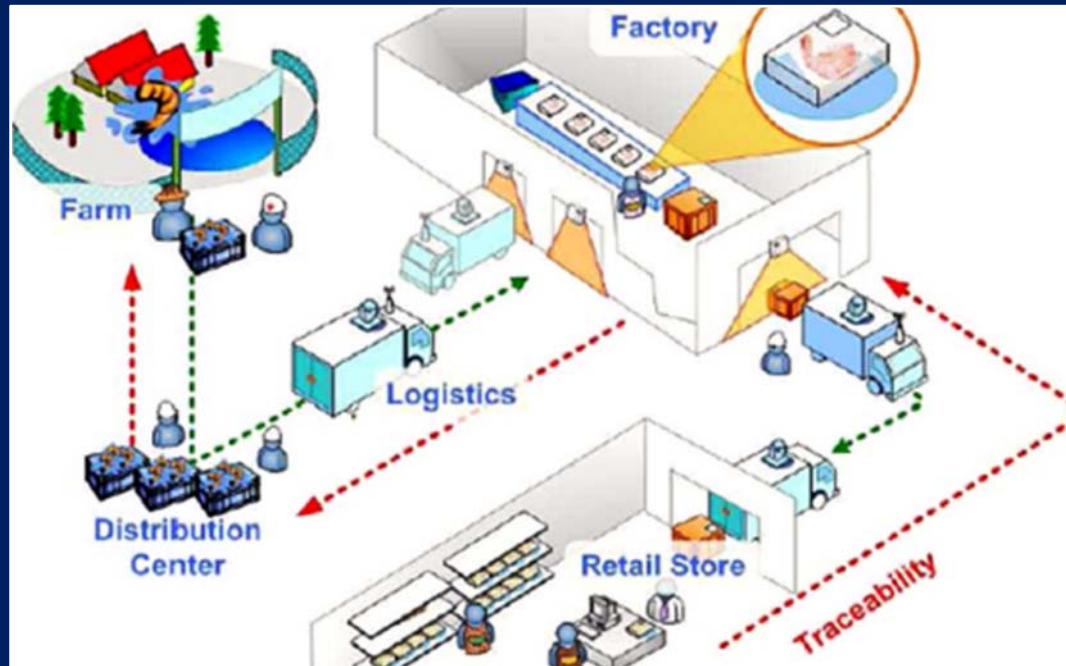
WE TRY TO ADAPT TO THESE CHANGES



WHAT ELSE LIES AHEAD?



GLOBAL FOOD DEMAND IS EXPECTED TO RISE BY 35% BY 2030.



Tools
Equipment
Packaging
Emissions

PACKAGING



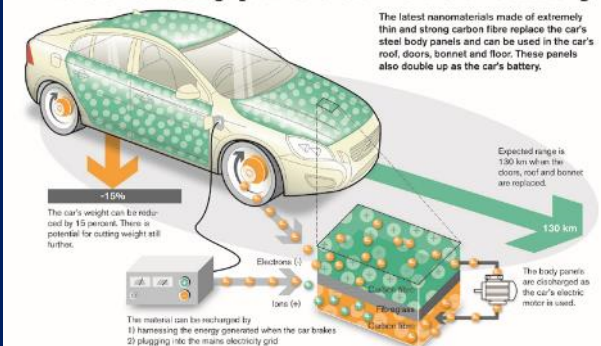
TECHNOLOGY EVOLUTION



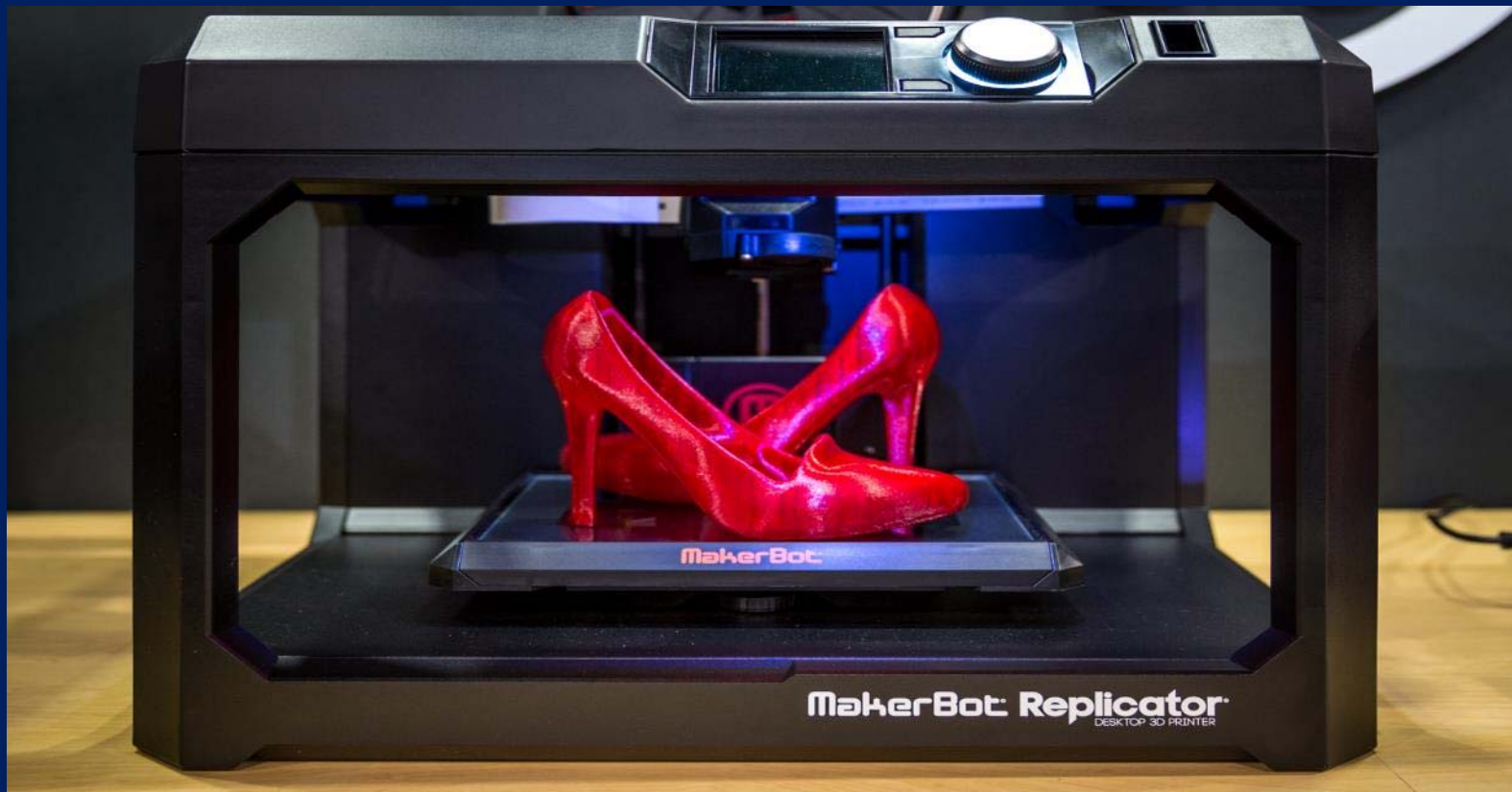
TECHNOLOGY REVOLUTION



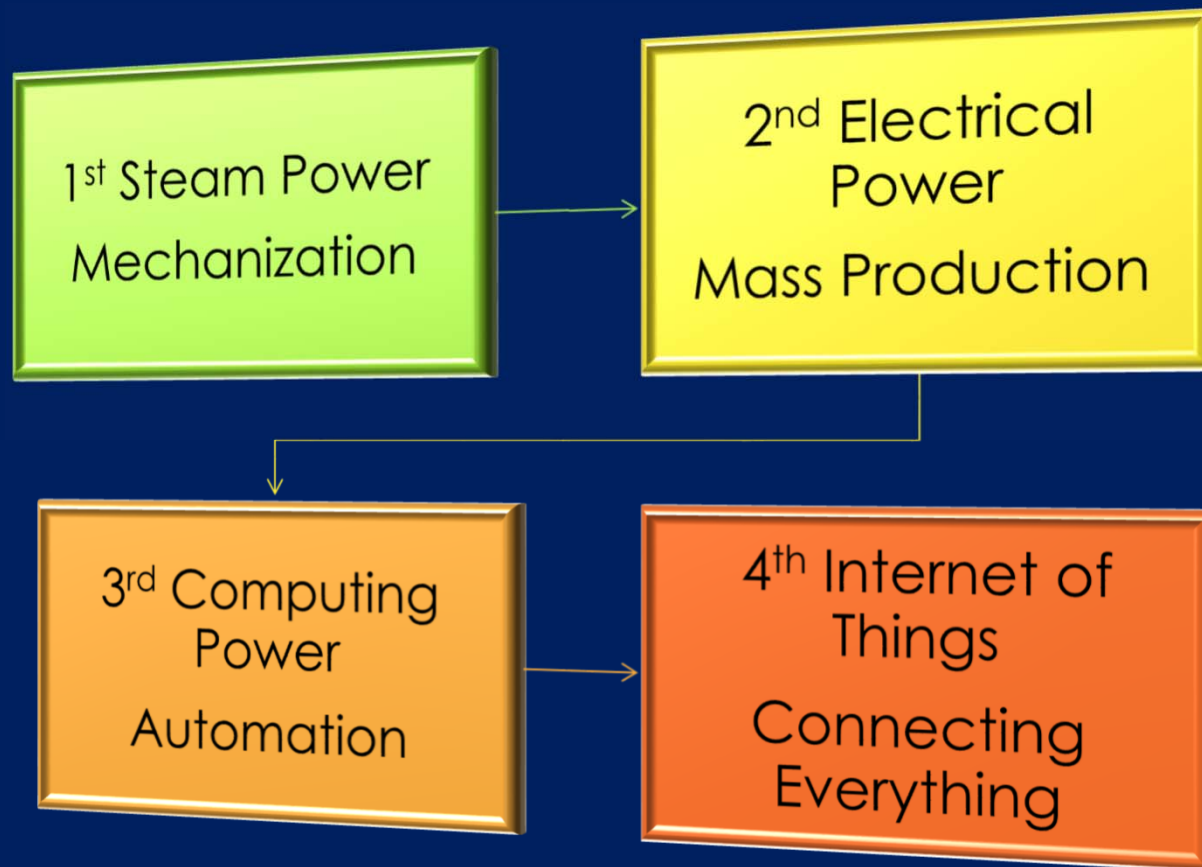
The car's body panels serve as a battery



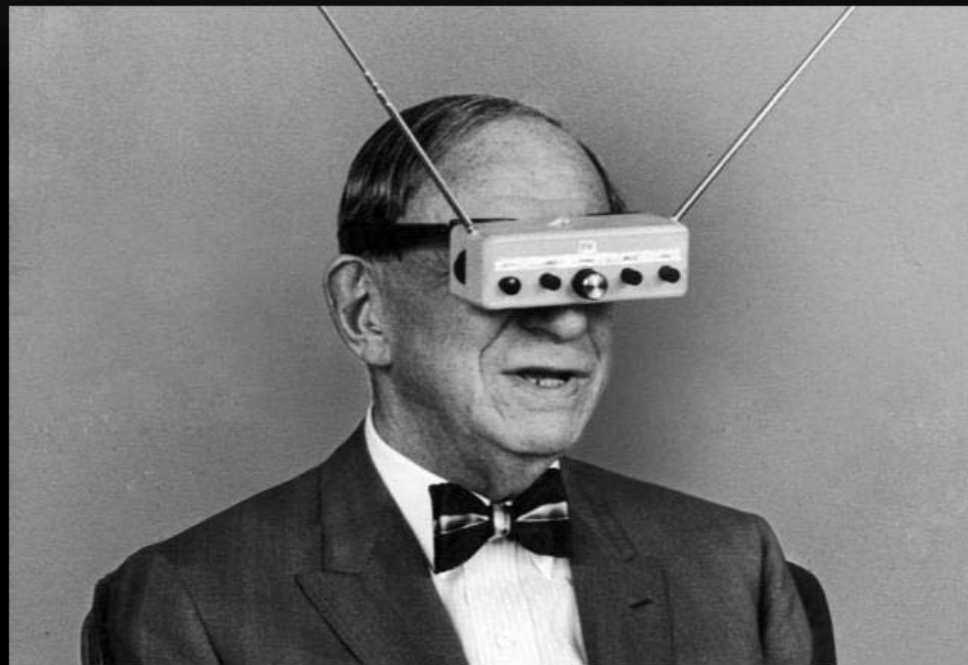
3D PRINTER IN EVERY HOME



4TH INDUSTRIAL REVOLUTION



IN 5 YEARS, YOU'LL BE USING TECHNOLOGY
THAT HASN'T BEEN INVENTED YET



"GARBAGE DESIGNERS WILL BE KEY PLAYERS IN A FUTURE ECONOMY" *

- WHAT ARE CONSEQUENCES OF NEW TECHNOLOGIES?
- PRODUCT DESIGN – CAN WE AVOID?
- WHAT ARE INFRASTRUCTURE NEEDS?
- WHAT ARE RESOURCE NEEDS?

*Careers 2030

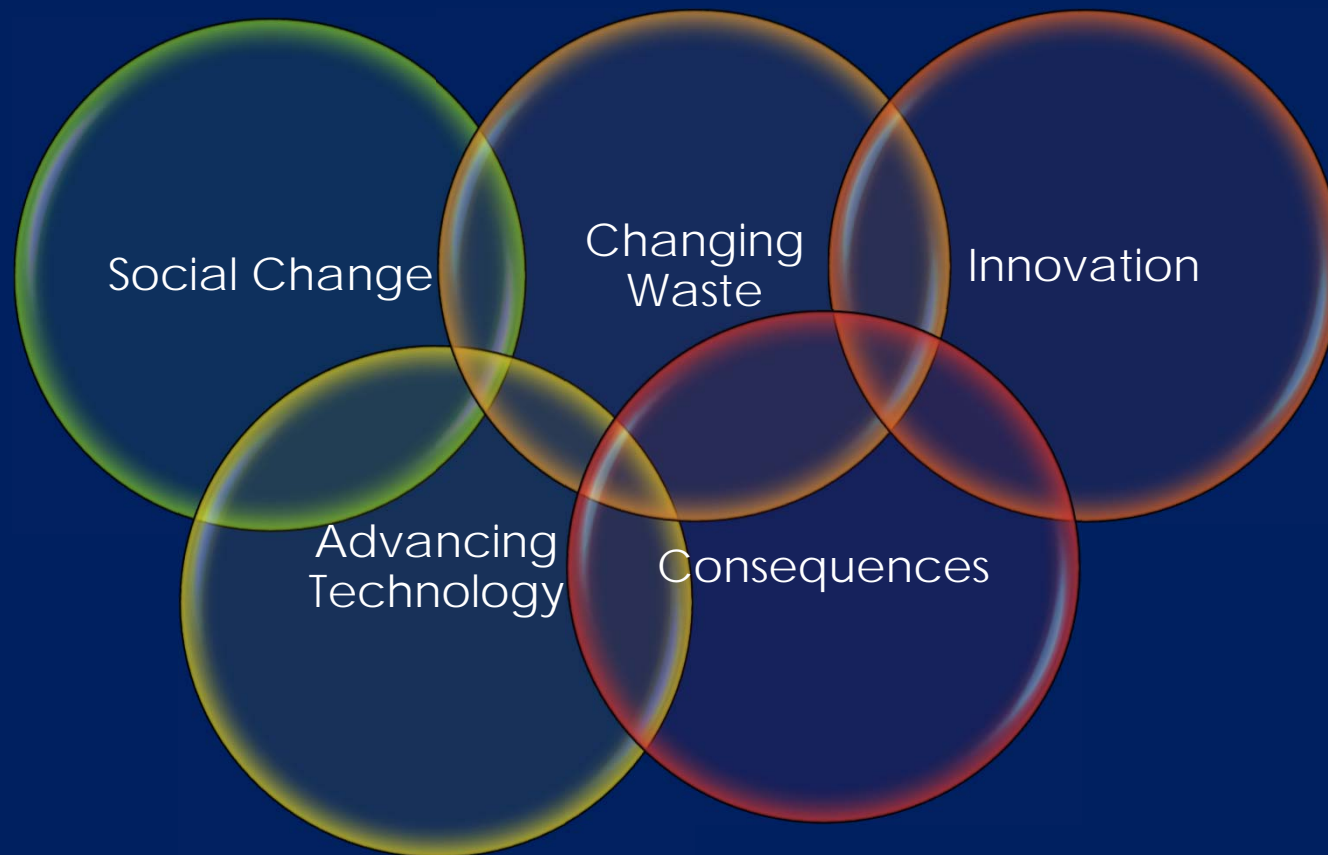
WHO WILL BE THE INNOVATORS?



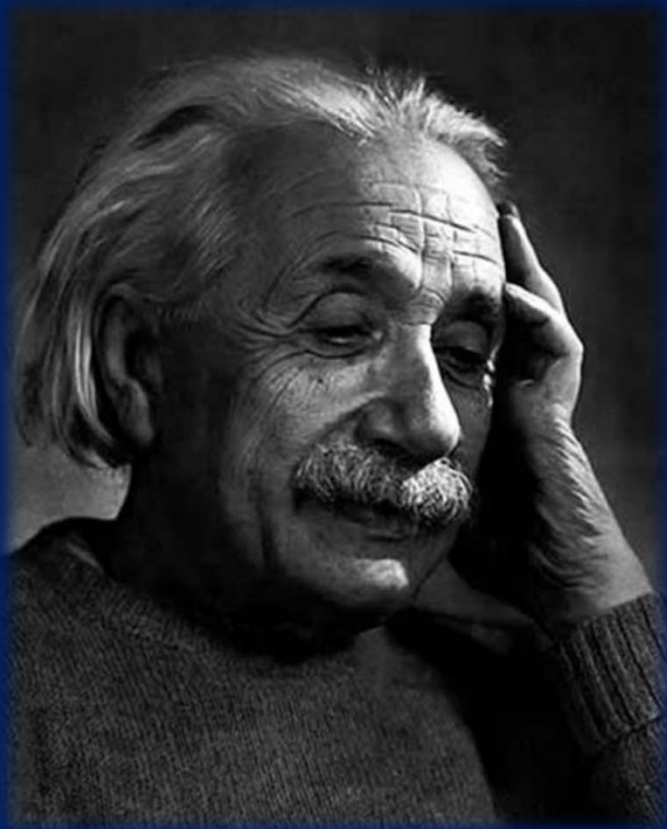
OLD GUYS RULE



WHAT WAS THIS ABOUT?



FINAL THOUGHT



We cannot solve our
problems with the same
thinking we used when we
created them

Albert Einstein