

**Agenda** 



- 1. Introduction to Predictum Inc.
- 2. Our Mission
- 3. How to Improve Productivity in Science & Engineering

Copyright © 2021 Predictum Inc.



# ABOUT PREDICTUM

3

#### **Mission**



- We accelerate problem solving, improvement and R&D
- Through
  - Analytical training and consulting
  - Integrated analytical systems



• Launched in March 1992

Copyright © 2021 Predictum Inc.











How managing knowledge (not just data) as an asset will dramatically improve productivity among researchers, engineers and business analysts.

5

#### Question



• How often does someone regenerate what was already known?



- Regenerating what was already known
  - Imposes higher risks
  - Costs \$
  - · Delays objectives
  - Lost opportunity to accelerate problem solving, improvement and R&D

Copyright © 2021 Predictum Inc

# '\_\_\_\_\_" Happens!

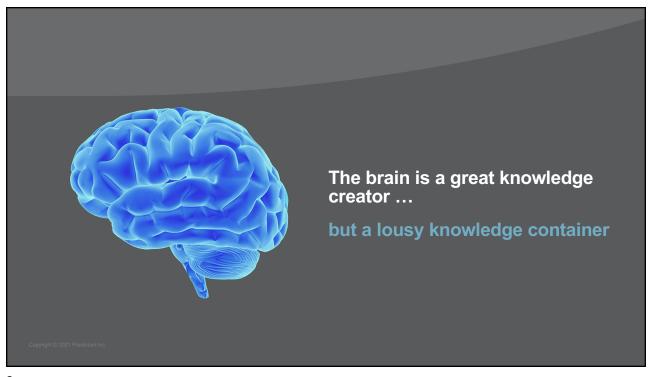


- Customer Issue
- Production Problem
- Obstacles causing delays in new product or process development & characterization
- How do you respond if the right people ...
  - ... cannot be identified?
  - ... are simply not available?
  - ... have retired, are away, have been reassigned or simply leave?

Copyright © 2021 Predictum Inc.

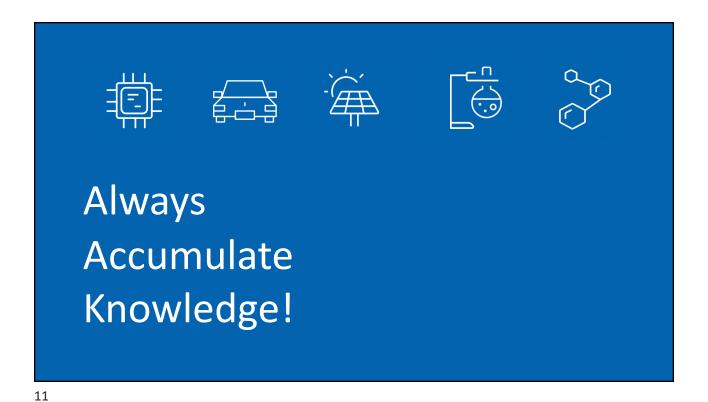
7

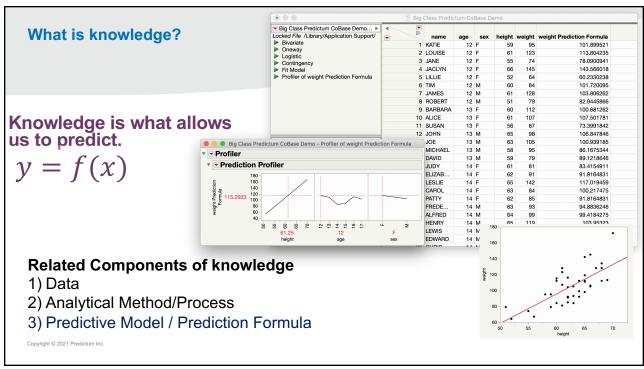


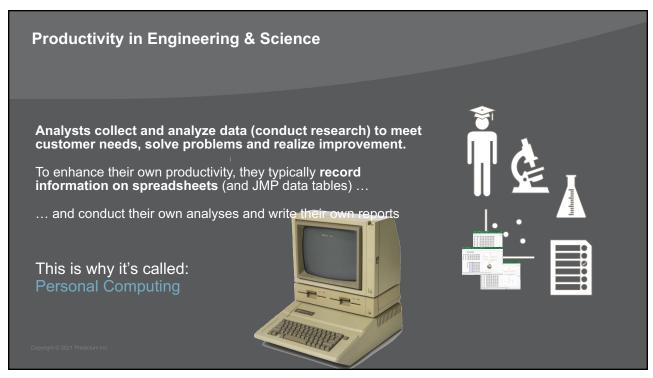


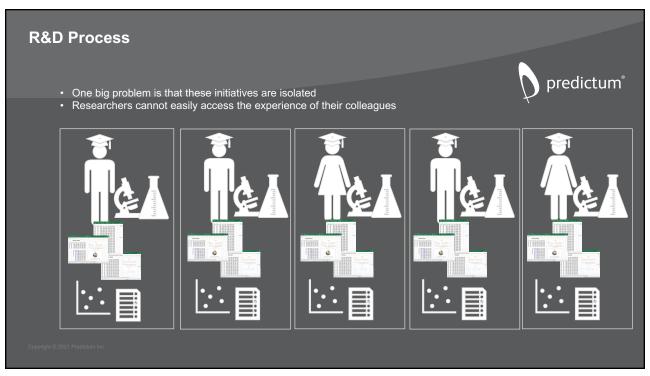


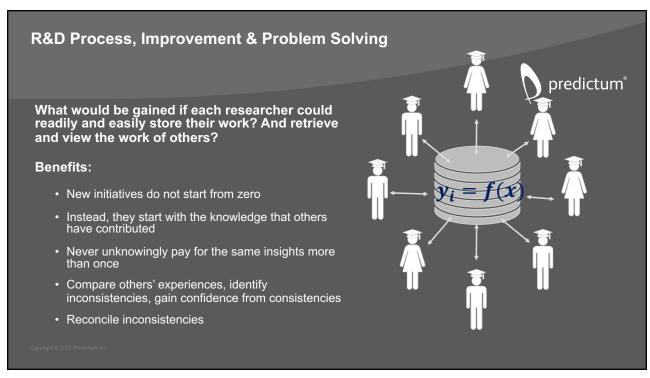
primary storage device.

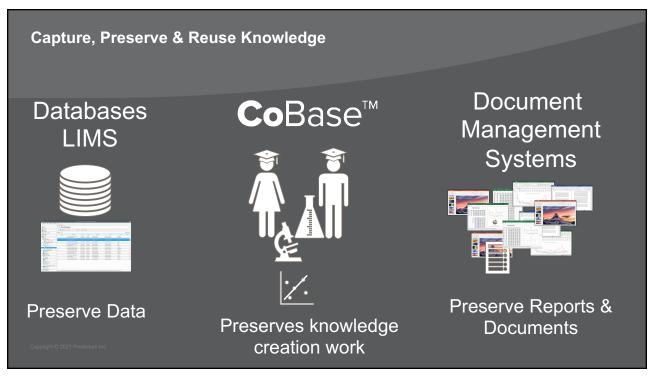












### Managing Knowledge like an Asset



- Managing Knowledge as an Asset requires that Knowledge be bundled (with data & reports) & packaged
  - · Identifiable, so that it can be ...
  - Searchable, so that it can be ...
  - Retrievable, so that it can be ...
  - Reused
    - · Referenced
    - · Challenged
    - Improved
  - Secure
    - · Your knowledge (data, analyses, predictive models) stay under your control

Copyright © 2021 Predictum Inc.

17

## **Knowledge Management Applications**



Virtual Lab or Digital Twin

Manage recipes & predictive models

Fully vet experiments before the delay and cost of physical experimentation

Fully consider proposed operational changes

Explicit expression of institutional knowledge by way of models



Everyday research and experimentation, Improvement initiatives, formal and informal

Database of experiments tagged and indexed by factors, responses and domain information

Anyone can look up the knowledge generated by others

Both capture explicit knowledge, development method and their underlying data and make them available for re-use by others. Avoid delays, costs and anxiety associated with searching for or regenerating knowledge.

Copyright © 2021 Predictum Inc.

