



## Smarter Analytics Live 2013

Turning information and insight into actionable business outcomes.

# Finding Opportunity in Chaos

Chris Howard – GMU Software Technical Leader - Big Data

04/2013



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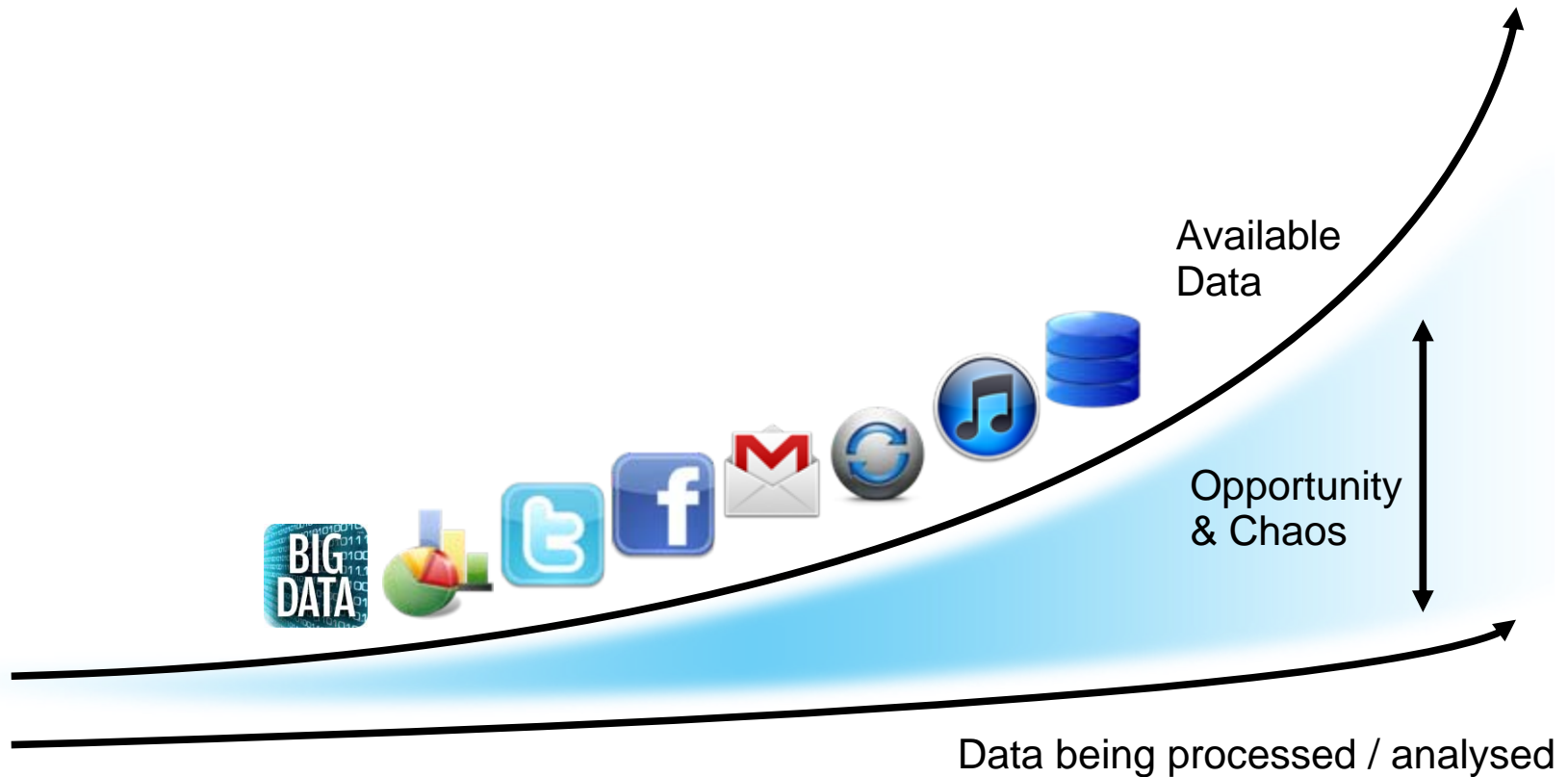
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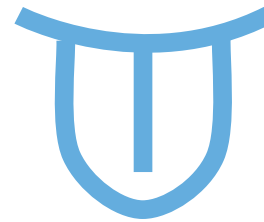
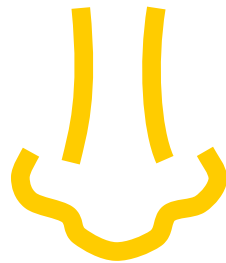
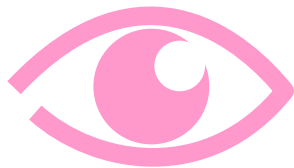
# Drivers



# The Big Data Conundrum



# Better Decisions



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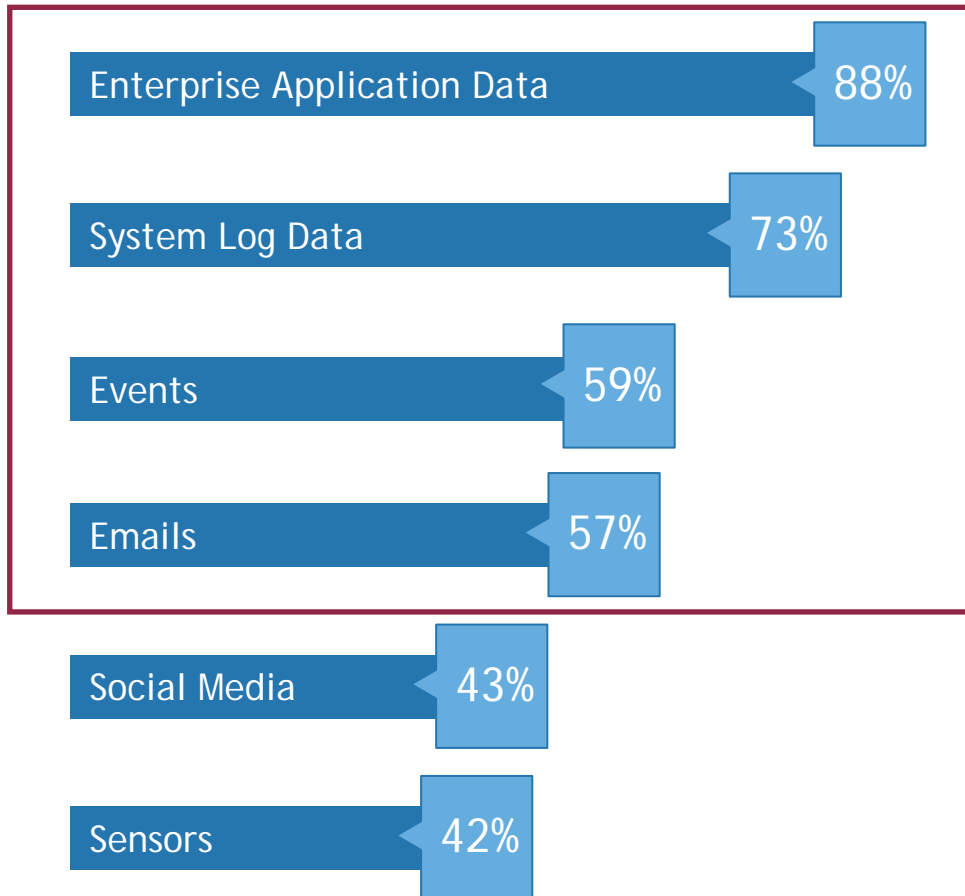
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# Misconceptions About Big Data



- “Big data is primarily about large datasets”
- “We will have to replace all older systems in the new world of big data”
- “Big data is only Hadoop or open source”
- “Data warehouses are a thing of the past”
- “We do not have the need or budget or skills, so we do not need to worry”
- “Big data requires I must get lots of data scientists coding”
- “Big data is all about unstructured data like video, images and social media”
- “Older transactional data does not matter anymore”

# Big Data Now – Focus on Internal Sources



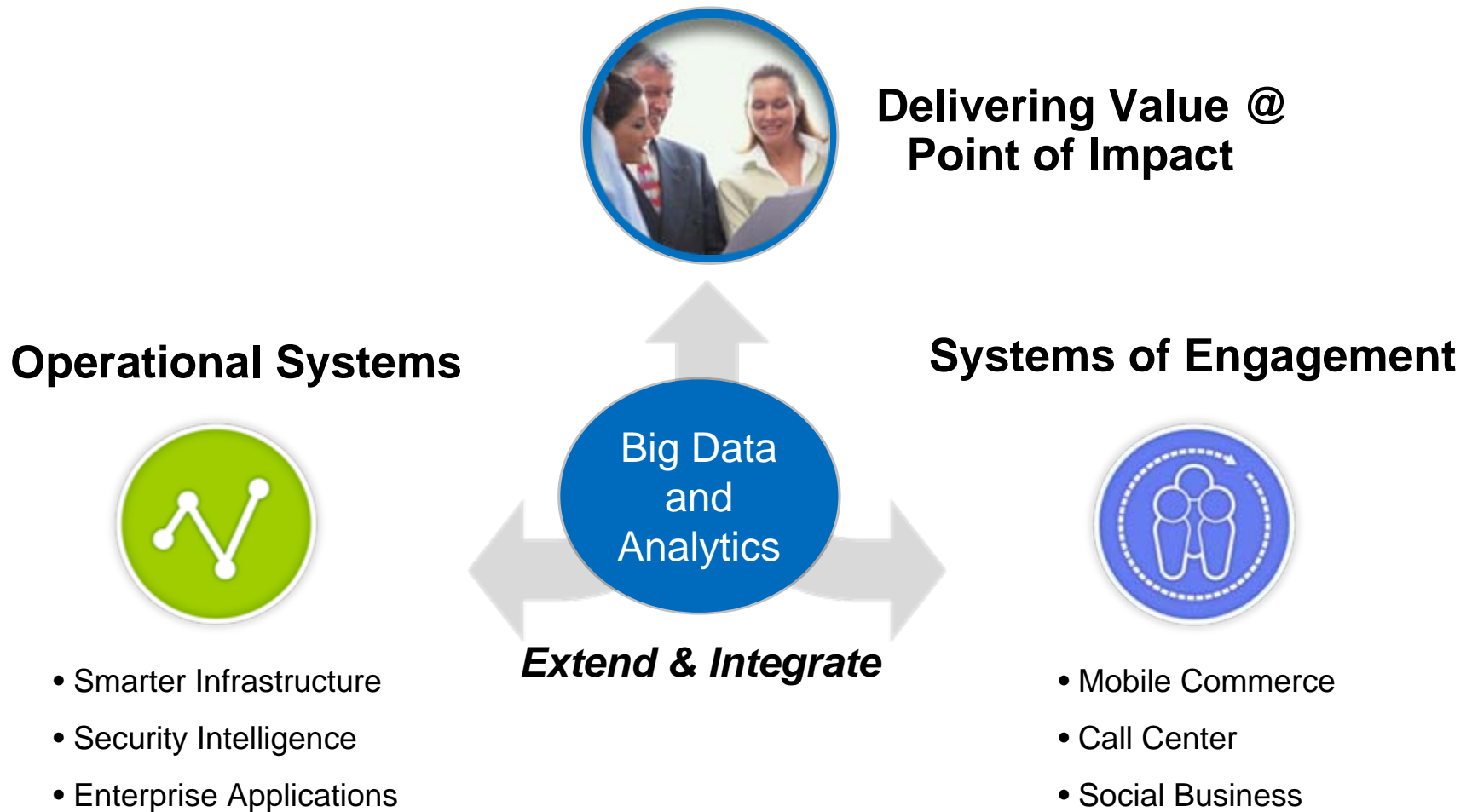
IBV Study on Big Data 2012 – Sources of Big Data



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# Industry Leaders are Leveraging Big Data to Identify Opportunity in their Data Chaos







# Customer Centric Outcomes



Influence, Intervene &  
Drive Desired Outcomes



## Insights

Predict & Act  
Sense & Respond

Analyze &  
Derive  
- Behaviour  
- Segmentation



## Interactions

Face to Face, Direct Voice, Self Service

Capture &  
Notice in Real-time

## Information

Pervasive & Quick Access to Trusted Data



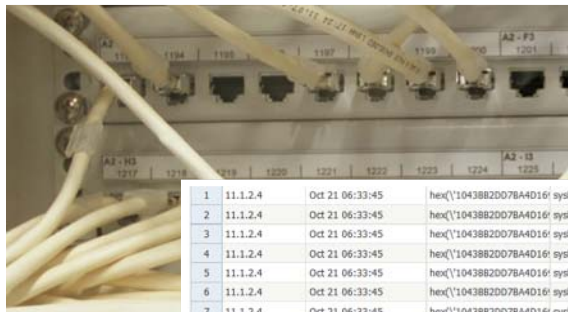
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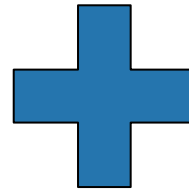




# Operational Analysis



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# Every Industry Can Leverage Big Data



## Banking

- Optimize Offers and Cross Sell
- Contact Center Efficiency and Problem Resolution
- Payment Fraud Detection & Investigation
- Counterparty Credit Risk Management



## Insurance

- Claims Fraud
- Next Best Action
- Catastrophe Modeling



## Telco

- Pro-active Call Center
- Network Analytics
- Location Based Services
- IT/Network Infrastructure Transformation
- Smarter Campaigns



## Energy & Utilities

- Smart Meter Analytics
- Distribution Load Forecasting/Scheduling
- Condition Based Maintenance
- Create & Target Customer Offerings



## Media & Entertainment

- Business process transformation
- Audience & Marketing Optimization
- Multi-Channel Enablement
- Digital commerce optimization



## Retail

- Actionable Customer Insight
- Merchandise Optimization Playbook
- Dynamic Pricing



## Travel & Transport

- Customer Analytics & Loyalty Marketing
- Capacity & Pricing Optimization
- Predictive Maintenance Analytics



## Consumer Products

- Optimized Promotions Effectiveness
- Micro-Market Campaign Management
- Real Time Demand Forecast



## Government

- Threat Prediction and Prevention
- Detect and Prevent Improper Payments
- Single View



## Healthcare

- Measure & Act on Population Health
- Engage Consumers in their Healthcare
- Increase visibility into drug safety and effectiveness



## Automotive

- Data Warehouse Optimization
- Predictive Asset Optimization (PAO)
- Actionable Customer Intelligence



## Chemical & Petroleum

- EDW Smart Consolidation & Augmentation
- Operational Surveillance, Analysis & Optimization
- Engineering & Operational Data Exploration & Mining



## Aerospace & Defense

- Uniform Information Access Platform
- Data Warehouse Optimization
- Predictive Asset Optimization (PAO)



## Electronics / Industrial Products

- Channel Driven Customer Analytics (CDCA)
- Predictive Asset Monitoring & Optimization (PAMO)



## Life Sciences

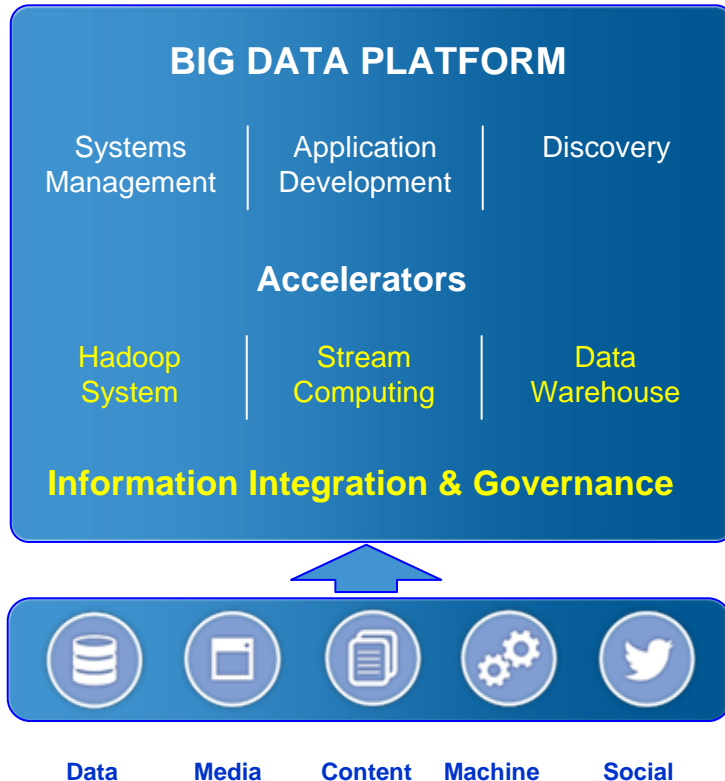
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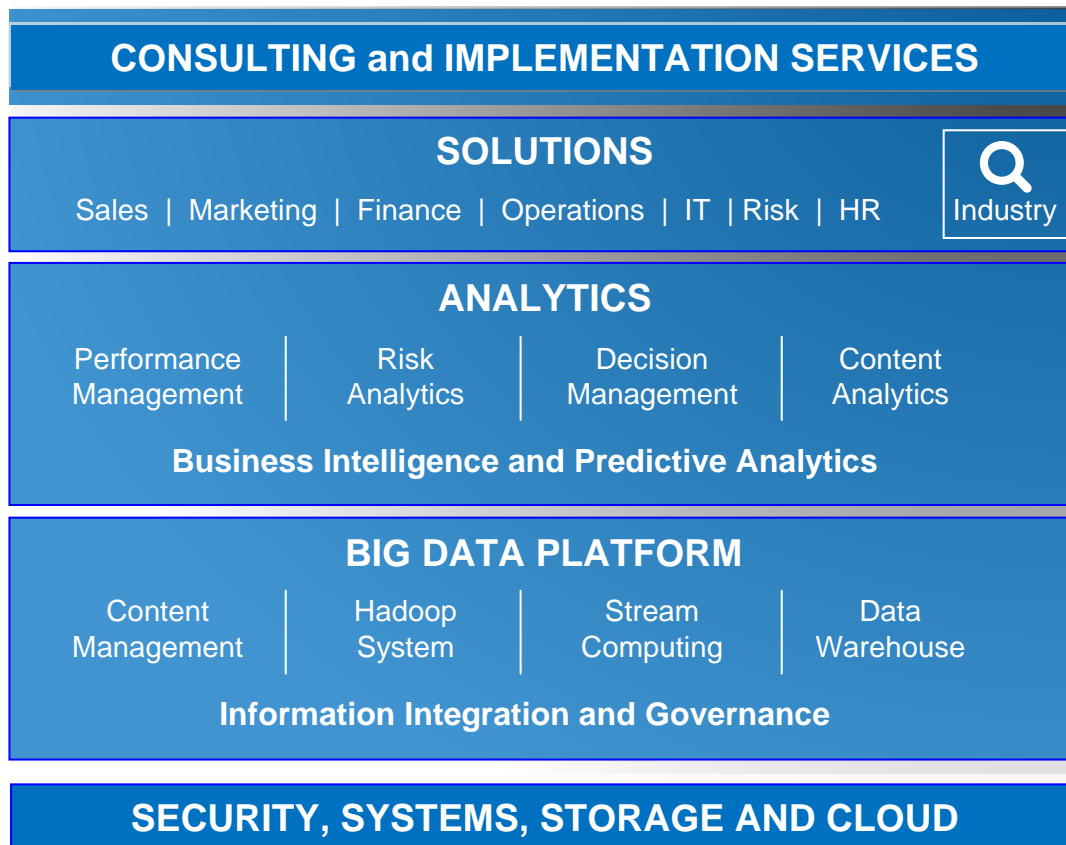
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# IBM's Big Data Platform



- Blends traditional technologies with big data innovations to deliver the industry's only big data platform with:
  - Enterprise-class Hadoop
  - Unique stream computing solution
  - Integrated with 200+ embedded analytics
  - Exploration and discovery
  - Accelerators with deep expertise
  - Broadest information integration and governance portfolio
  - Deep integration with business analytics and enterprise content management
  - Available in multiple form factors
- Why a Platform?
  - Most big data use cases require a combination of technologies

# Big Data Platform is an essential component of the broader IBM Big Data and Analytics Strategy



## Enabling organizations to

- Assemble and combine relevant mix of information
- Discover and explore with smart visualizations
- Analyze, predict and automate for more accurate answers
- Take action and automate processes
- Optimize analytical performance and IT costs
- Manage, govern and secure information
- Reduced infrastructure complexity and cost

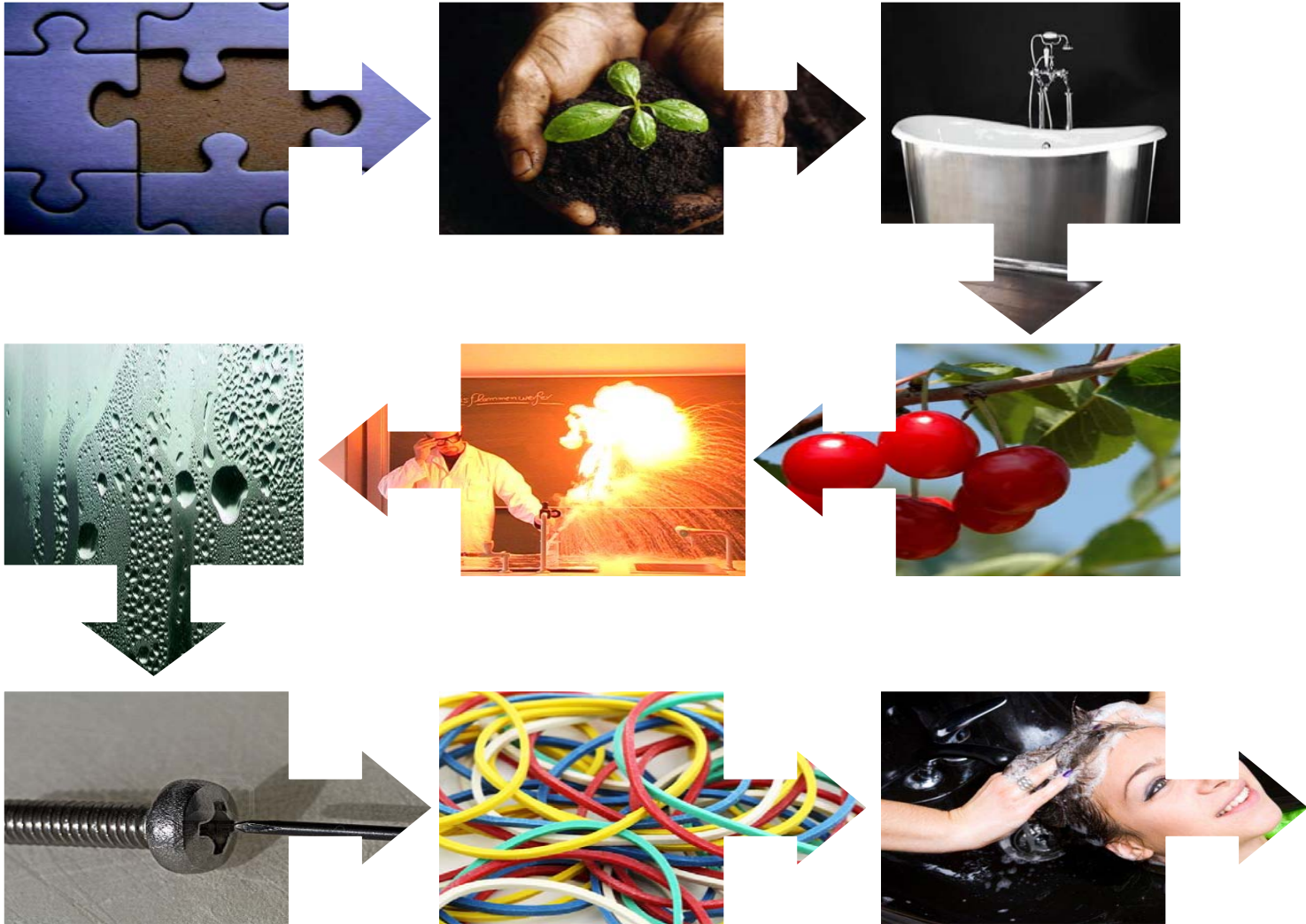


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# To Summarise



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# Thank You

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