



DATA - A NEW ERA

Unikey - KG0D6253



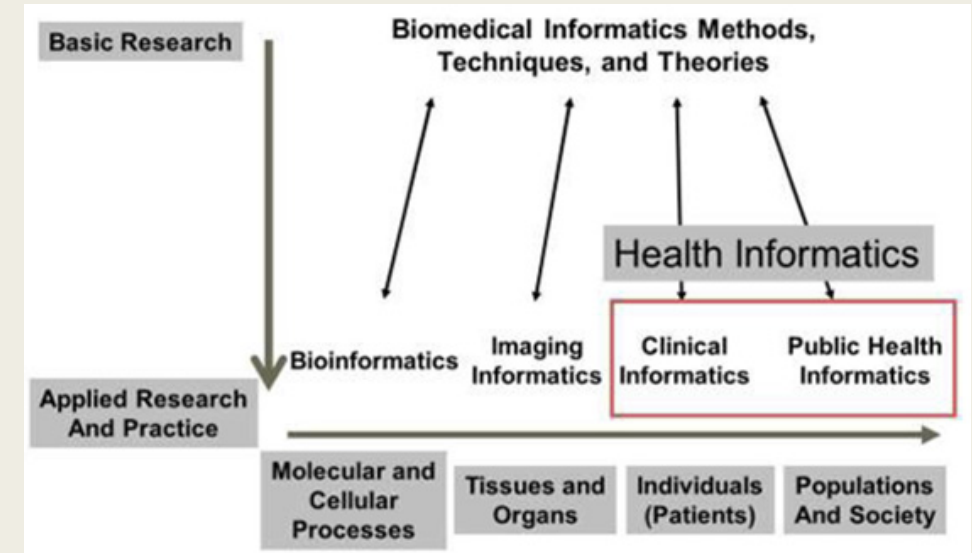
Information

- Information is something which informs. It is a tool by which wise decisions are made.
- Information is selected from data by the methods in the field of informatics



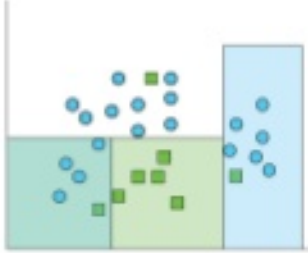
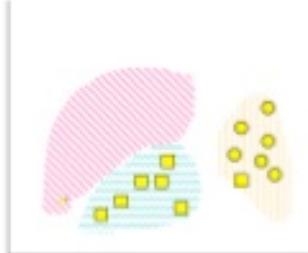
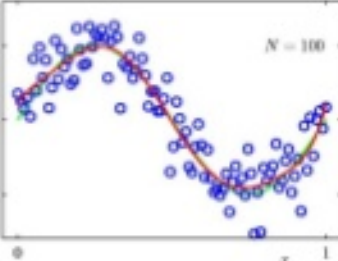

Informatics

- Informatics is a viable solution to many common fields in which there is a lot of data for example:
 - *Health*
 - *Finance*
 - *Economics*
 - *Etc.*
- This information is extracted using data mining methods.



One example of informatics in the field of health

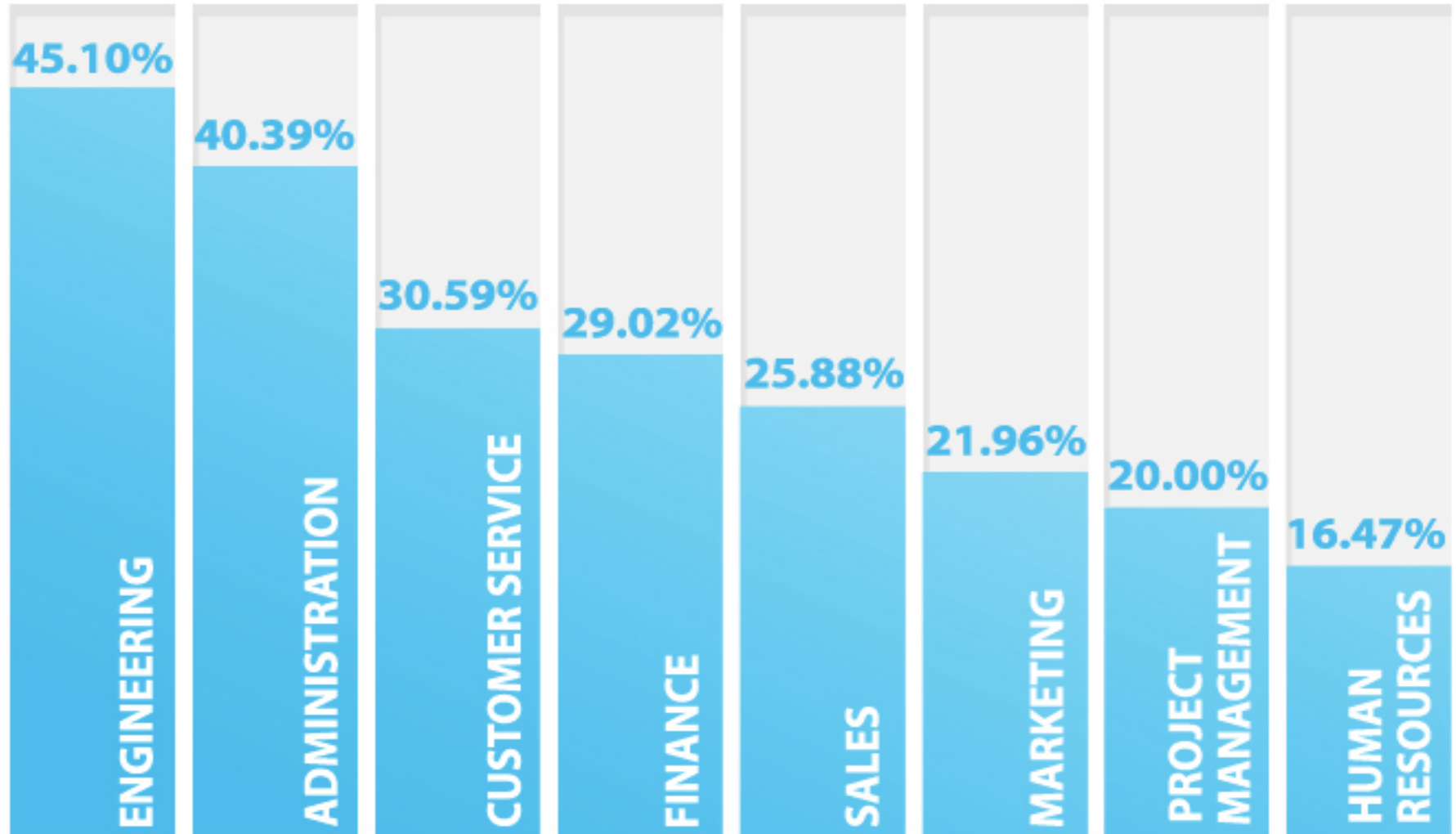
Data mining methods

Predictive methods	Descriptive methods
<div>Classification</div> <div></div> <div>Learns a method for predicting the instance class from pre-labeled (classified) instances</div>	<div>Clustering</div> <div></div> <div>Finds "natural" grouping of instances given un-labeled data</div>
<div>Regression</div> <div></div> <div>An attempt to predict a continuous attribute</div>	<div>Association Rules</div> <div></div> <div>Method for discovering interesting relations between variables in large DBs</div>

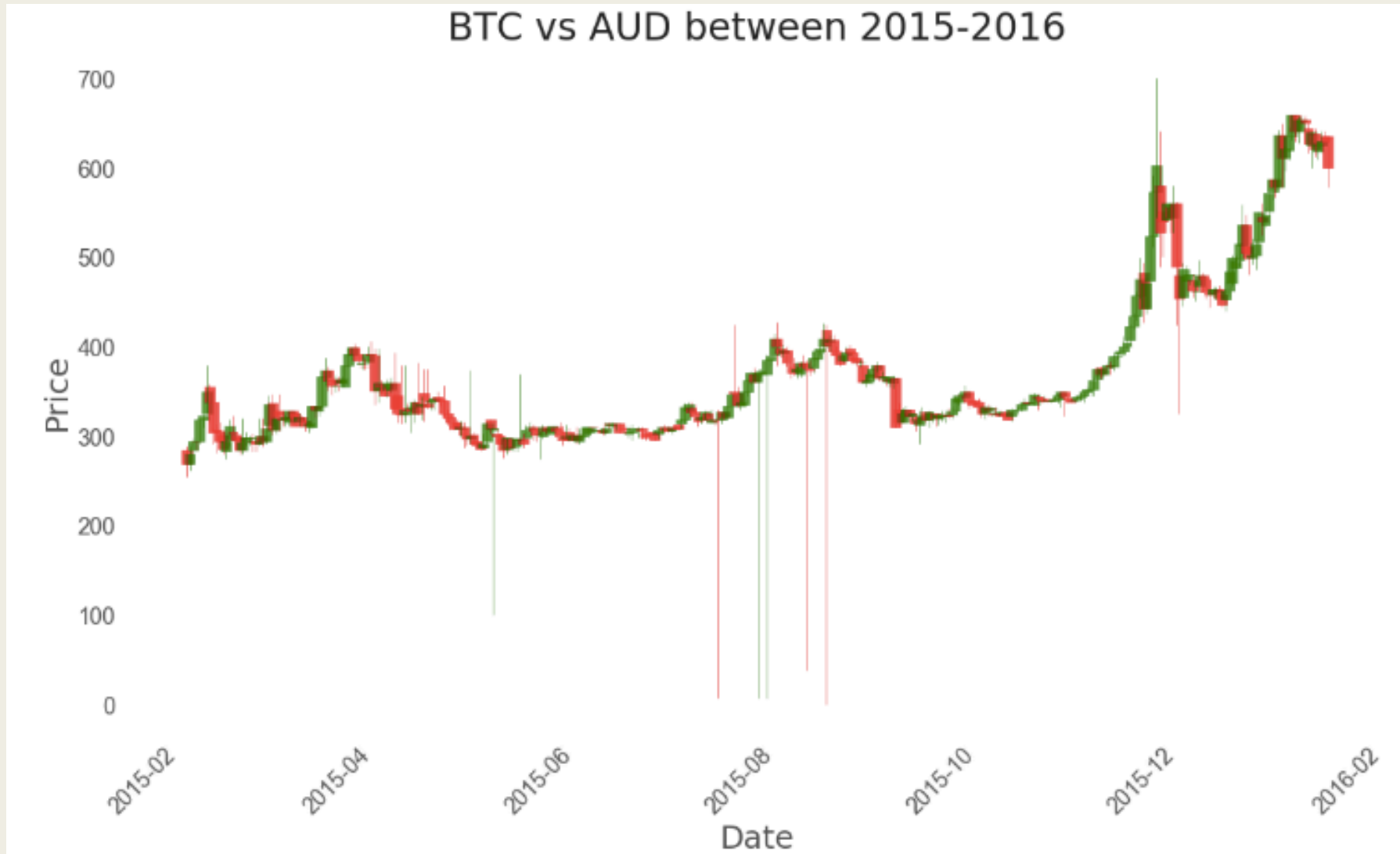
Applications of Informatics

- Industries to benefit from AI.
- Edstem's estimated growth by the end of 2020.
- The impact of cryptocurrencies on the real world by 2020.
- How an excess or deprivation of sleep can affect the human body.

Industries to benefit from AI



Price showing increasing adoption for BTC



BITCOIN USER ADOPTION ON THE RISE

🕒 November 26, 2016 👤 Rocky 📁 Bitcoin Markets

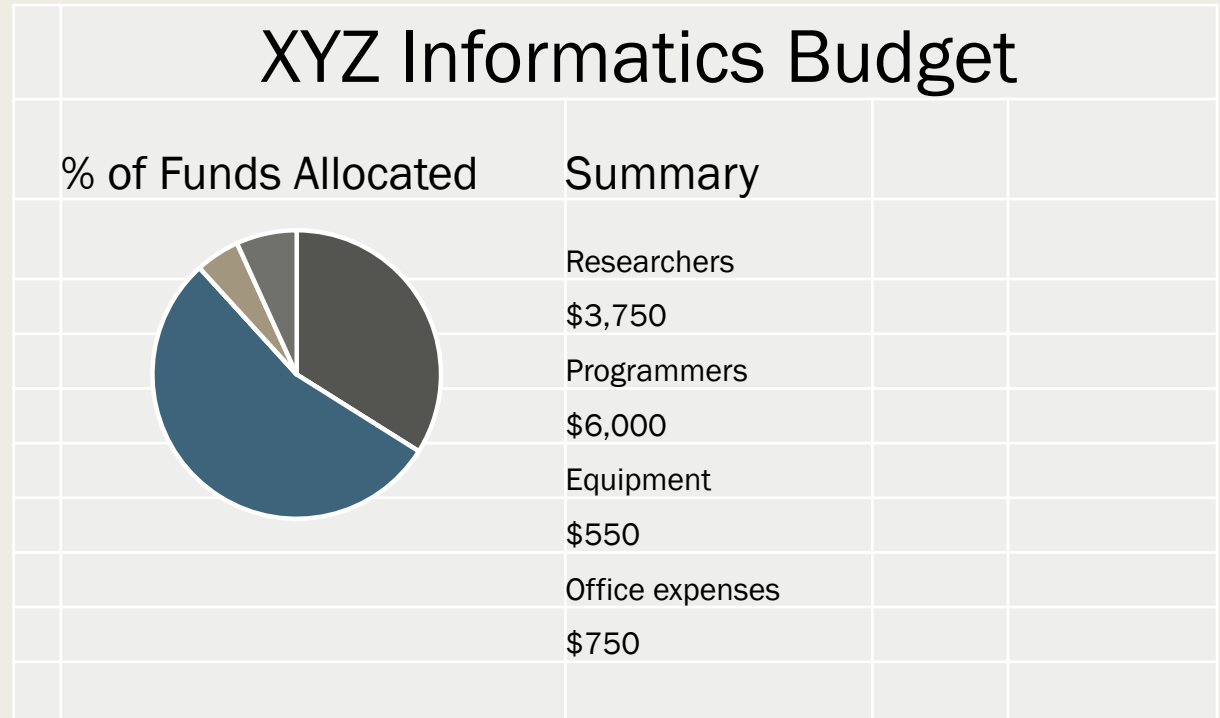
Bitcoin user adoption is starting to accelerate around the world. Economic uncertainty around hyperinflation, bail-ins, negative interest rates and quantitative easing is shaking investor confidence in the legacy financial system. The global economy is currently in a **\$152 trillion debt bubble**, causing banks and governments to implement draconian monetary policies.

2016 Has Brought a Bitcoin Awakening

May 6, 2016 by Vinny Lingham

Allocated funds

- Surveys are conducted to gather data
- Funds are not just used for gathering research.
- Budget constraints are implemented.



Example budget plan of an informatics division in a company

Overall advantages of informatics

- Unorganized data is given meaning.
- An organization can create a plan using information.
- Informatics can be applied to almost any field.
- An objective without a goal or research can be very deadly.
- Long term value is created in the society.

Disadvantages

- Gathering data is an expensive process.
- Informatics and analysis is costly
- Analysis is not an autonomous process.

Conclusion



Informatics is an essential component in an organization

Sources

- <https://coursesearch.unimelb.edu.au/majors/140-informatics>
- <http://www.zentut.com/data-mining/data-mining-techniques>
- <https://cryptohustle.com/bitcoin-user-adoption-on-the-rise>
- Lecture 01 Slides, Alan Feteke
- Project Stage 2, Karan Goda