



# TECH<sup>4</sup>CAMPUS

IST722 – DATA WAREHOUSE

PROJECT TEAM 1

## INCEPTION

- What do we want to sell?
  - How to sell? (technology)
  - Product(s)? supply chain, life span, inventory, etc...
- What solutions can we offer to business challenges?
  - WHAT'S IN IT FOR THEM?
  - Solution must be scalable.
  - No/minimum deviations from current processes.

[ Campus Computing Facilities and Infrastructure ]

# CHALLENGES

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## Customer/Student

- Access/Connectivity
- Application Support
- Personal & Environmental Hygiene

## Campus/University

- Infrastructure Costs
- Quick Diminishing Asset Equity (lab computers)
- Budget/Funding Cycle
- Personal & Environmental Hygiene

## Manufacturer/Supplier

- Support Costs
- Technology Junk Management

# BUSINESS IDEA

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Build upon Bring-Your-Own-Device phenomenon

Online Computer store that only sells to University Students/Alumni

Computers are configured to specifications with schools' input

3 Configurations; MVP – Mid-Range – Top-Line

2 Suppliers/Platforms; Apple/macOS & Microsoft/Windows

Offer Trade-ins and Responsible Recycling options

# VALUE PROPOSITION FOR CUSTOMERS

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- The “**machine**” configured by TECH4CAMPUS
  - **UPTO 20% lower in price than suppliers offer**
  - **OFF-CAMPUS** : It is a lean mean high performance computing beast!
  - **ON-CAMPUS** : It is still a lean mean high performance computing beast, but now it is an **EXTENSION** of the **university's computer lab environment**.
    - Seamless Connectivity (AirOrangeX + Students' School profile)
    - Pre-loaded Applications (Computer Lab Software)
    - Dual-BOOT with “Vanilla-OS” option
    - Improved onsite Product and Application Support for **LIFE!**
    - Improved Hygiene

# VALUE PROPOSITION FOR CAMPUS

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- When “**machines**” are configured by TECH4CAMPUS
  - Mitigation of Campus Computing Infrastructure burden
  - Augmentation of campus Computer Labs
  - Promotes “Cloud” collaboration
  - Increased opportunities for hyper-connected technology projects
  - Future opportunities for cross-university collaboration
  - Improved Computer Lab Hygiene

## VALUE PROPOSITION FOR SUPPLIER

TECH4CAMPUS

- When “**machines**” are configured by TECH4CAMPUS
  - They have to provide **ZERO** application support
  - They get controlled prototype and beta testing data
  - They get CSR engagement opportunity
  - They get a Responsible Recycling Point on campus

# DW PROJECT TEAM

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Team Member	Current Project Role A	Current Project Role B
Chen Katrina	Project Lead	Requirements Lead
Khawaja Sohaib	Business Process Lead	Communications Lead
Peng Zhaoge	Requirements Lead	BI Lead
Wang Chichen	UX/UI Lead	Implementation Lead



# BUSINESS PROCESSES

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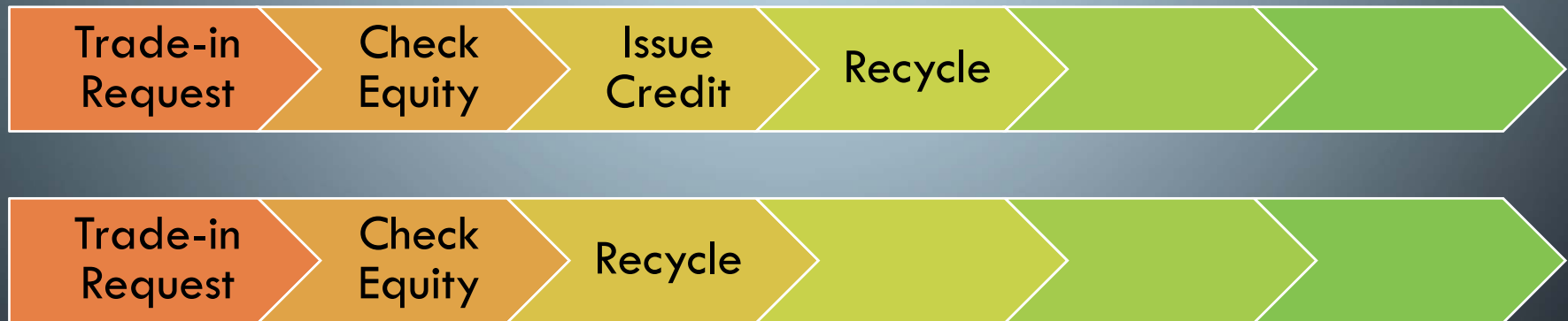
# PRODUCT SALE / LEASE PROCESS

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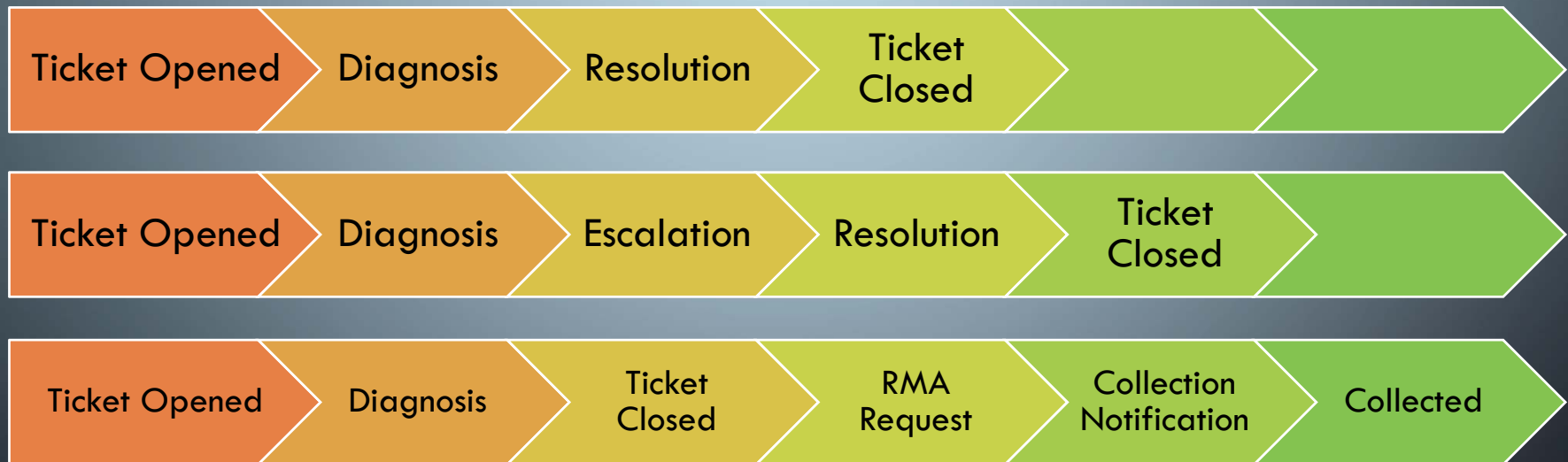
# PRODUCT TRADE-IN PROCESS

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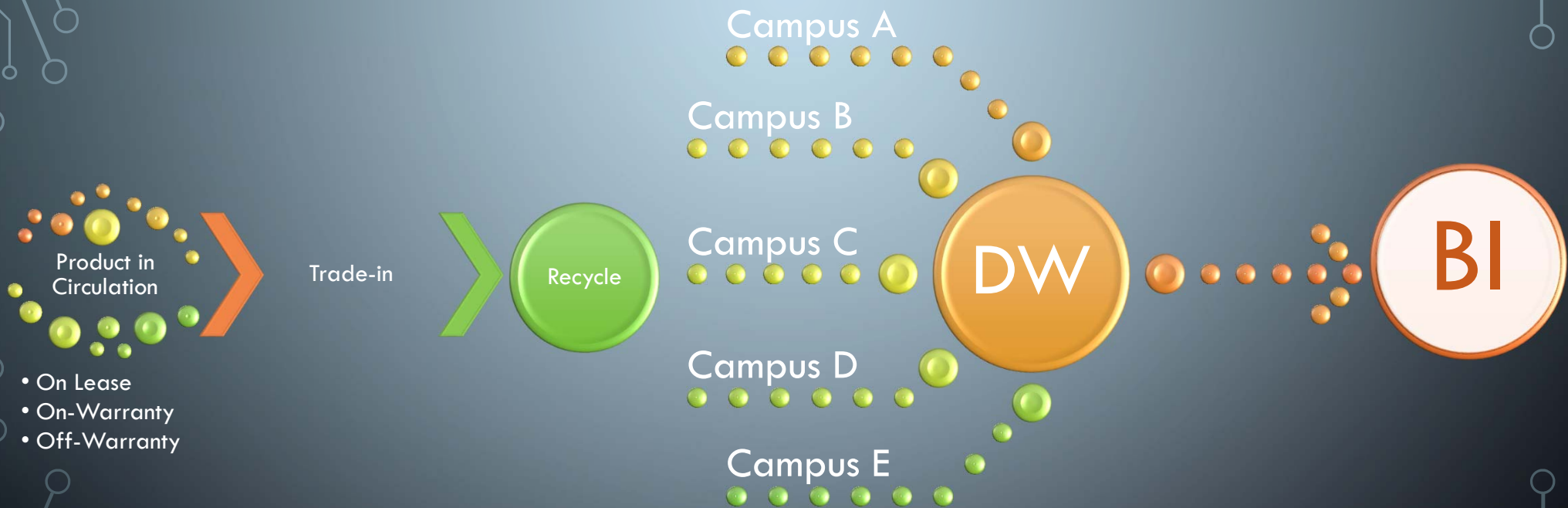
# PRODUCT SUPPORT PROCESS

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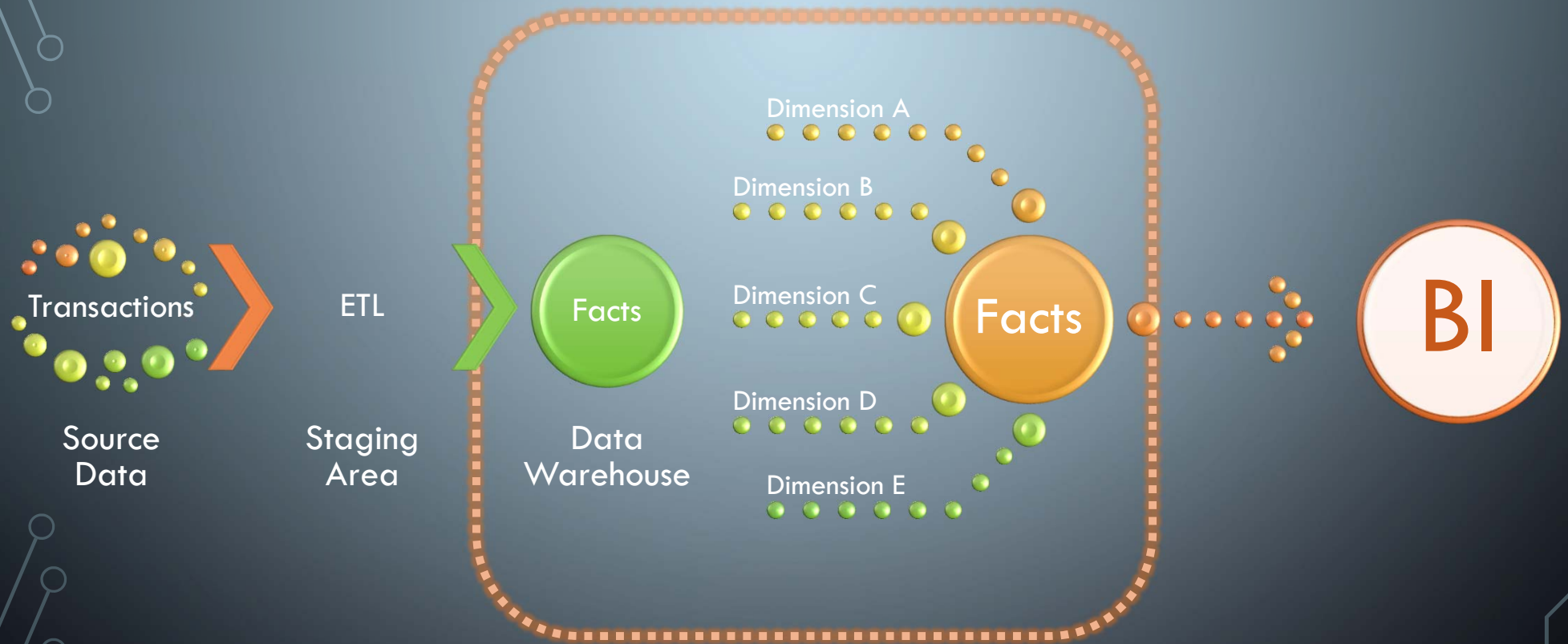
# PRODUCT TRACKING PROCESS

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# DW METHODOLOGY

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# BUS MATRIX

High-Level-Dimensional-Modeling-Workbook (1).xlsx

File Edit View Insert Format Data Tools Add-ons Help All changes saved in Drive

Product Support

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U
1	Instructions!																				
2																					
	Business Process Name	Fact Table	Fact Grain Type	Granulairty	Facts	Product	Customer	Order Date (Date)	Delivery Date (date)	Warrenty Start Date (Date)	Warrenty End Date (date)	Trade_in Date	Ticket Open Date (Date)	Ticket Close Date(date)	School	Support Engineer		Dim13	Dim14		
3	Product Sale	Sale_fact	Transction	One row per sale transction	Quantity, Discount Amount, Sold Price	x	x	x	x	x	x					x					
4	Product Support	Support_fact	Accumulating Snapshot	one row per cusomter support case	Diagnose time	x	x						x	x		x					
5	Product trade in	Tradein_fact	Transction	one row per trade in transction	Equity Worth at trade in	x	x					x				x					
6	Product Tracking	Segment_fact	Periodic Snapshot	One row per school every month	Quantity	x									x						
7																					
8																					
9																					
10																					
11																					
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Readme Detailed Bus Matrix Attributes & Metrics Issues List

Explore

# BUS MATRIX

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High-Level-Dimensional-Modeling-Workbook (1).xlsx

File Edit View Insert Format Data Tools Add-ons Help All changes saved in Drive

Instructions!

Dimension / Fact Table	Attribute / Fact Name	Description	Alternate Names	Sample Values
Product	Product Name			
	Brand Name			Apple
	Model			Mac Air
	Sale term	type of sales		Sell/lease
	Customer	Customer First Name		
	Customer Last Name			
	Expected Graduate Date			
	Status	Customer Status		Student; Faculty
	School ID			
	Address			
School	City			
	State			
	Zip code			
	Phone number			
	Email			
	School Name			
	School Address			
	City			
	State			
	Zip code			
	Contact Name			
	Contact Phone number			
	Contact Email			

Readme Detailed Bus Matrix Attributes & Metrics Issues List

Explore



## KNOWN UNKNOWNS

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- Source / Transaction data exclusive of nopCommerce
- How much governance is shared with a Campus/University

US Dollar

Register

Log in

Wishlist (0)

Shopping cart (0)

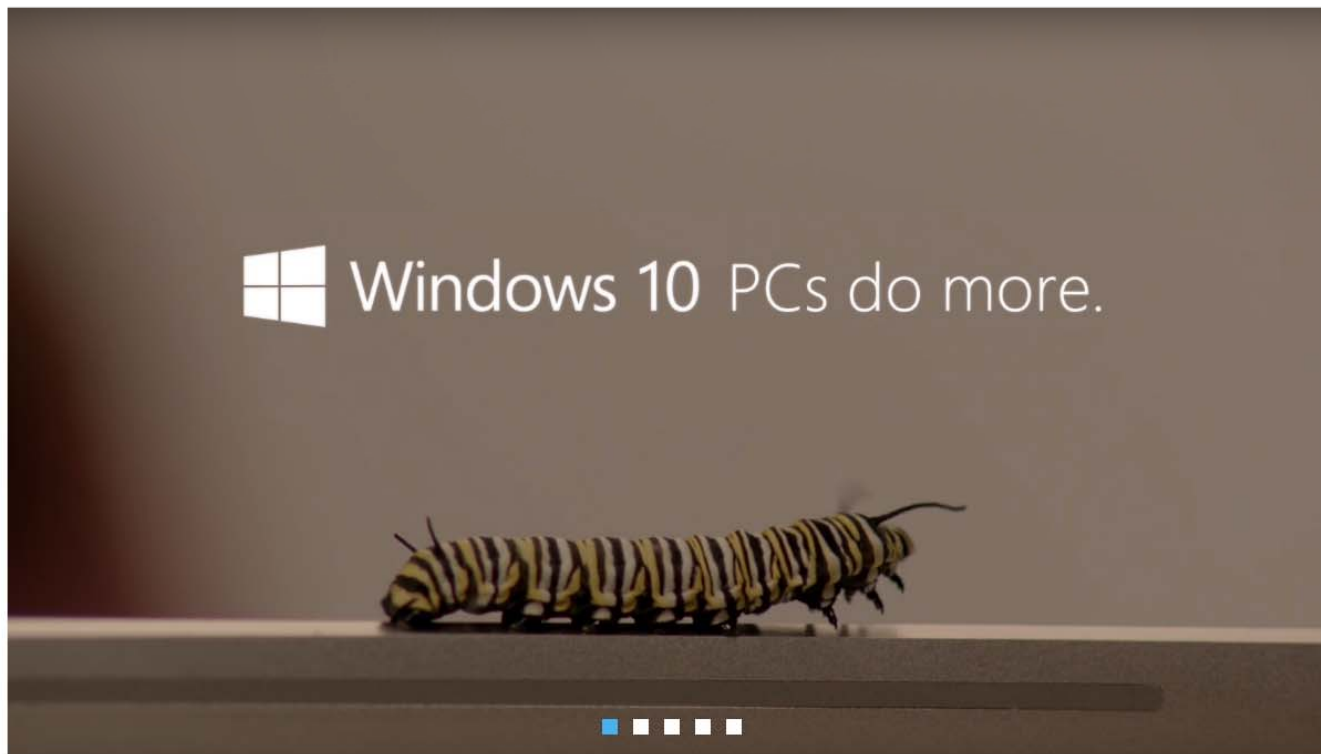
# TECH4CAMPUS

Search store

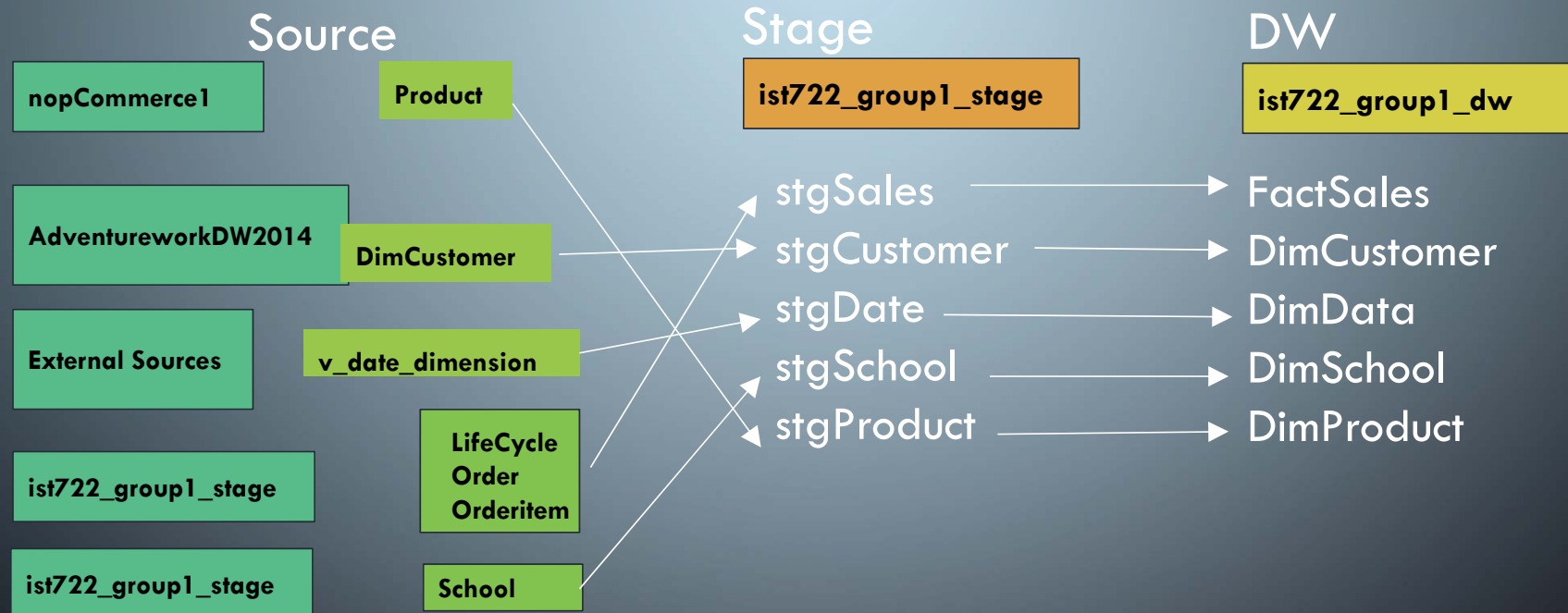
SEARCH

Computers

Gift Cards

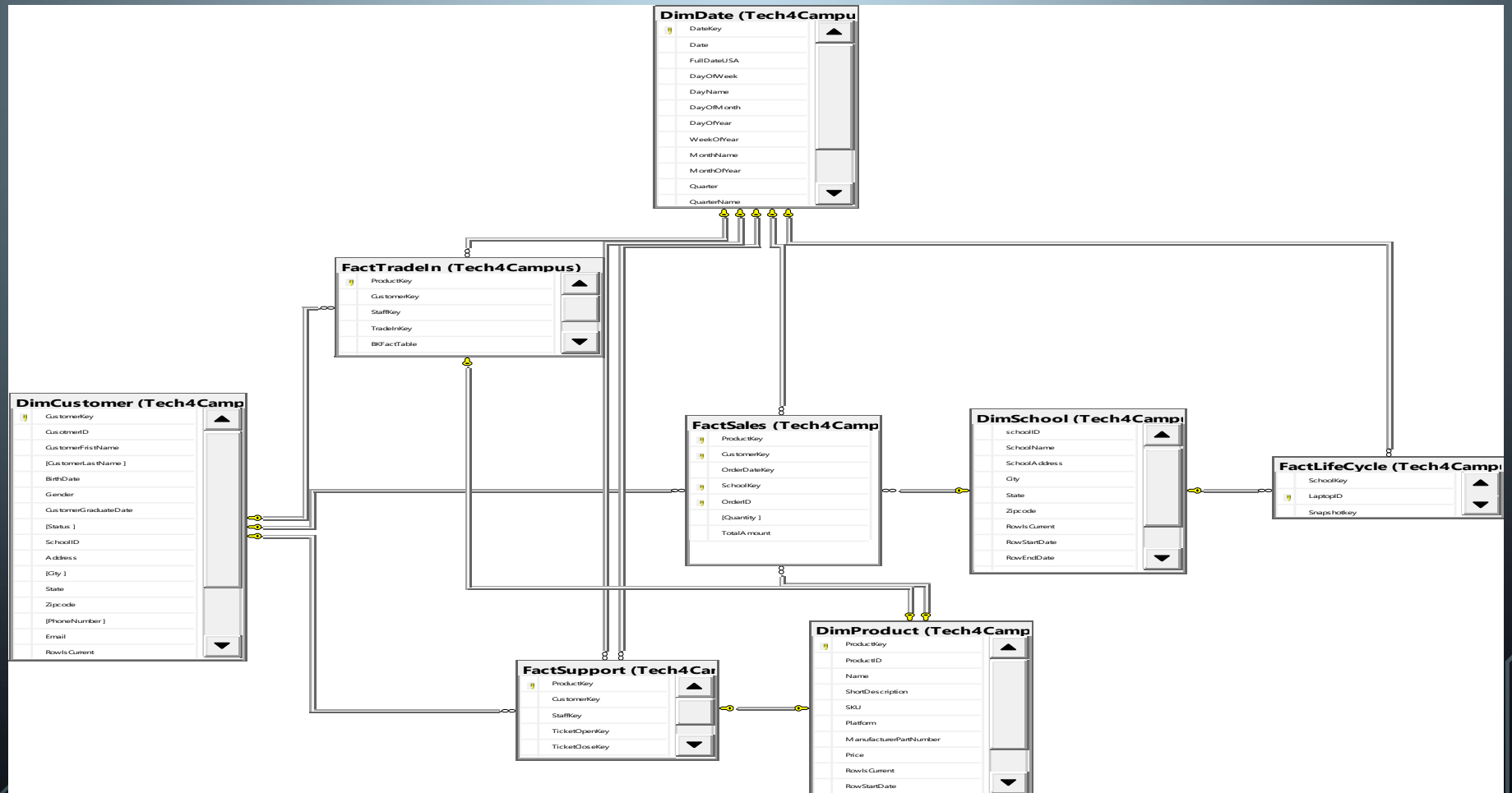


# SOURCE TO TARGET MAP



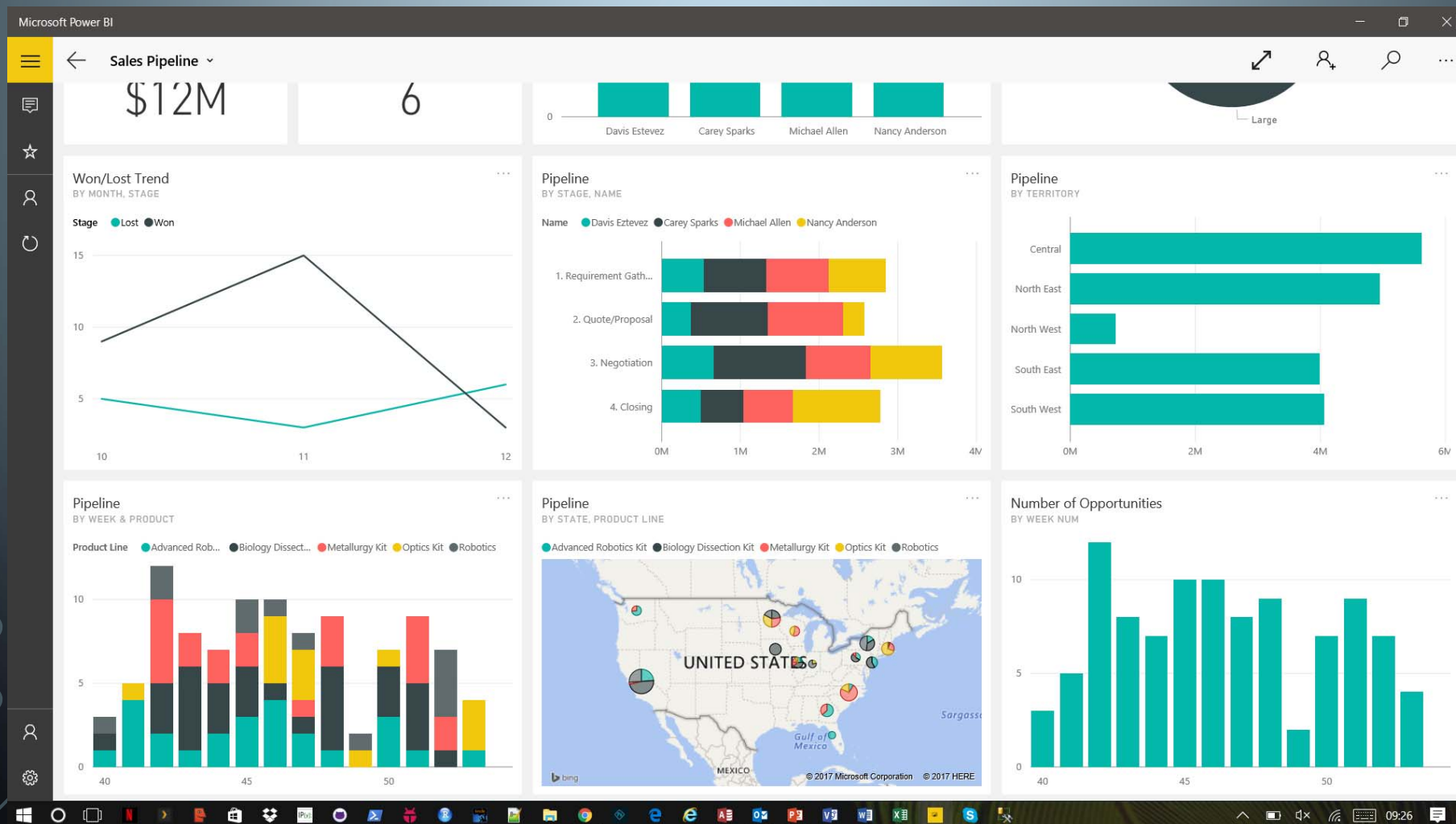
# WAREHOUSE SCHEMA

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# BI DEMO

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## QUESTIONS / FEEDBACK

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## THANKS

PROJECT GROUP 1:

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