

Using Analytics to Generate Revenue and Improve Decision Making

CSMFO Annual Conference
March 2016



The **discovery** and
communication of meaningful
patterns in data.

Agenda

Past, Present & Predictive Analytics

Tales of Success

Community Engagement & Transparency

Some Cautions

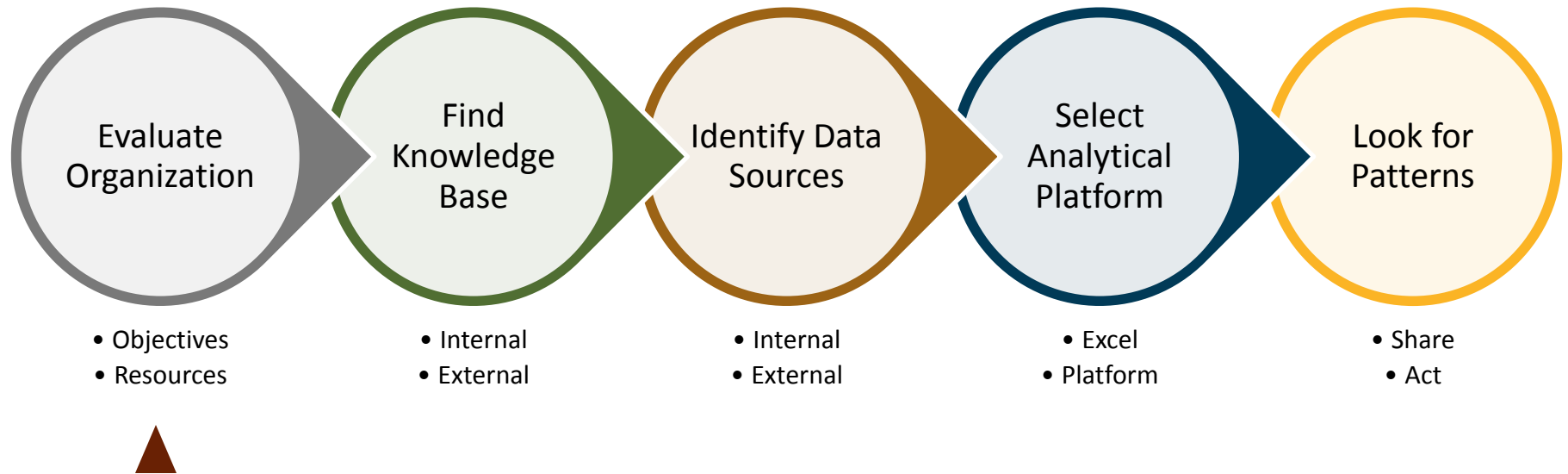
Confirm rights to see, use or share data

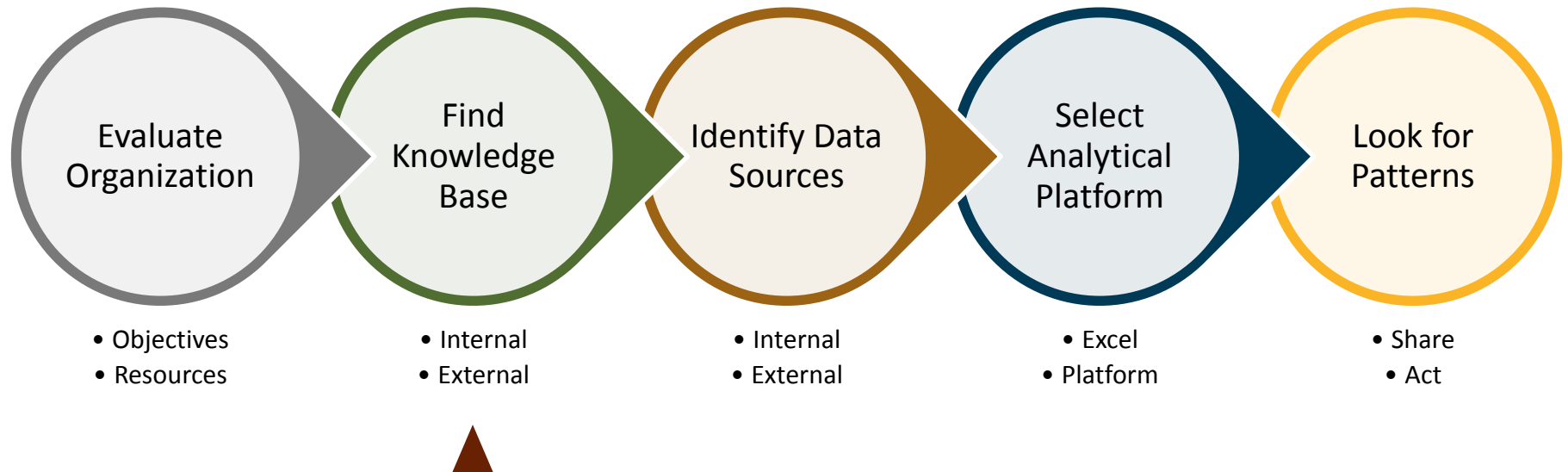
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Encouragement

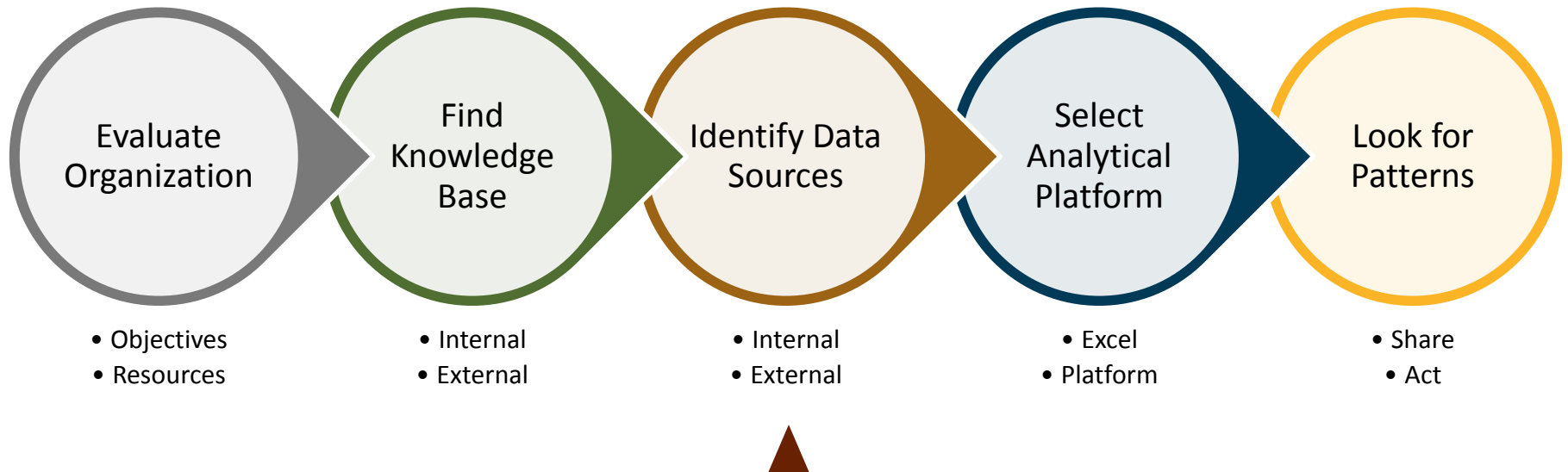
| Have fun with it!

| Find something new every day!

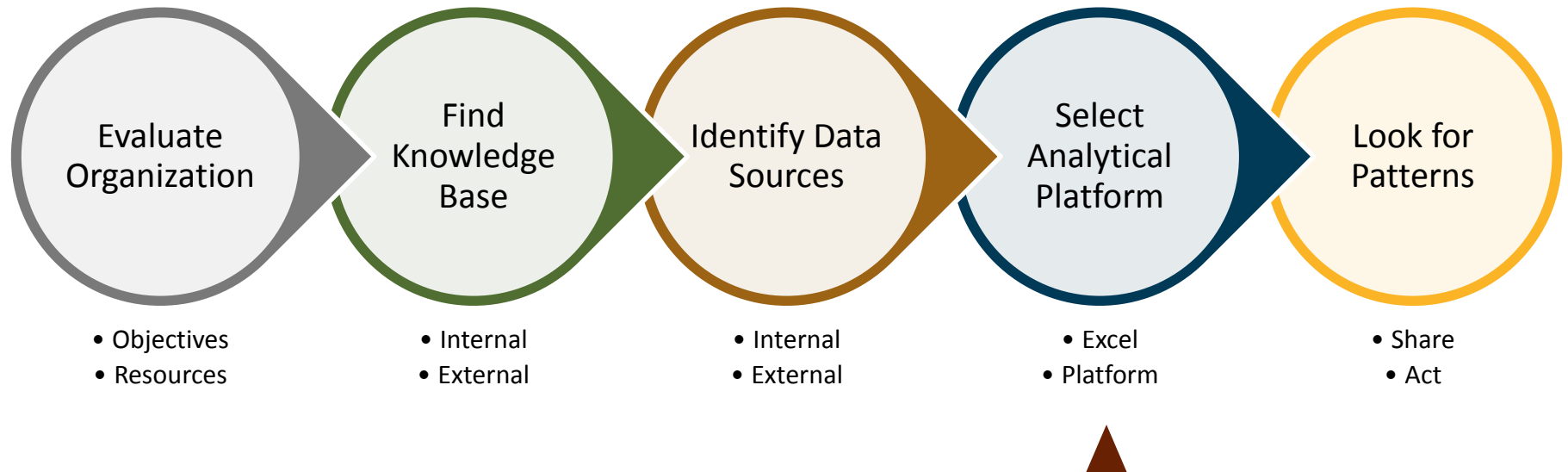




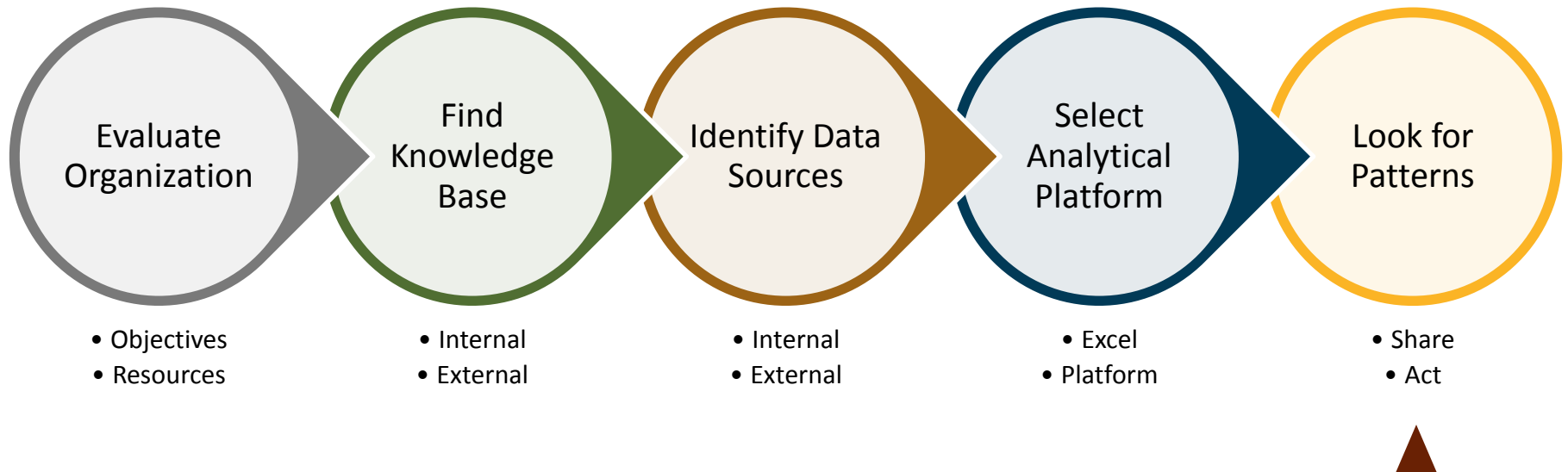
A great opportunity for staff development



Tax revenues, website, demographics, etc.



Excel for starters or data visualization platform for sophistication



Excel

| Statistical Functions

| Charting

| Scenarios

| Process Control Charts

| Capture & Leakage Analysis

Data Visualization Platform

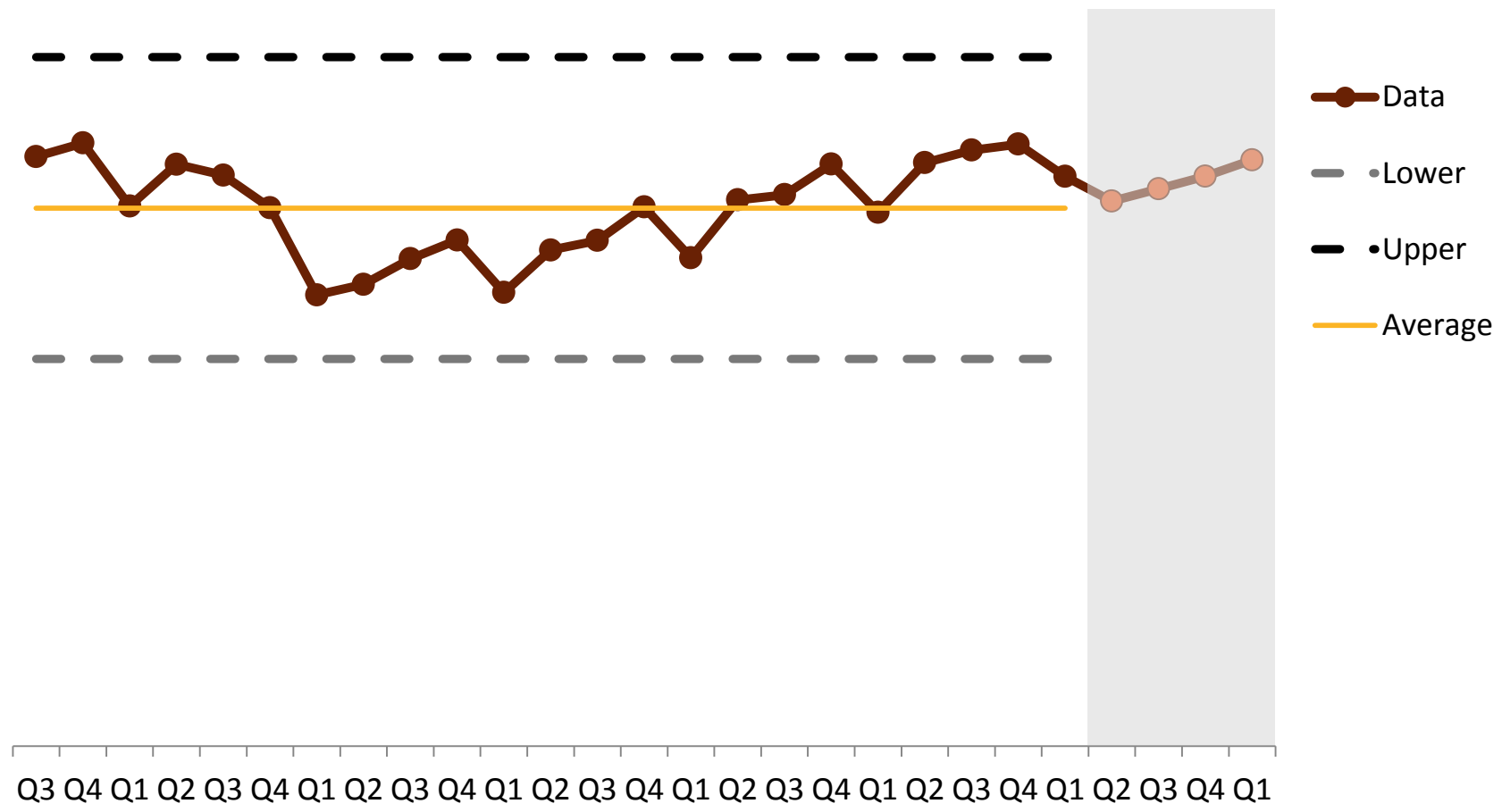
| Interactivity & Visualizations

| Big Data Integration

| Cluster & Factor Analysis

| Mapping

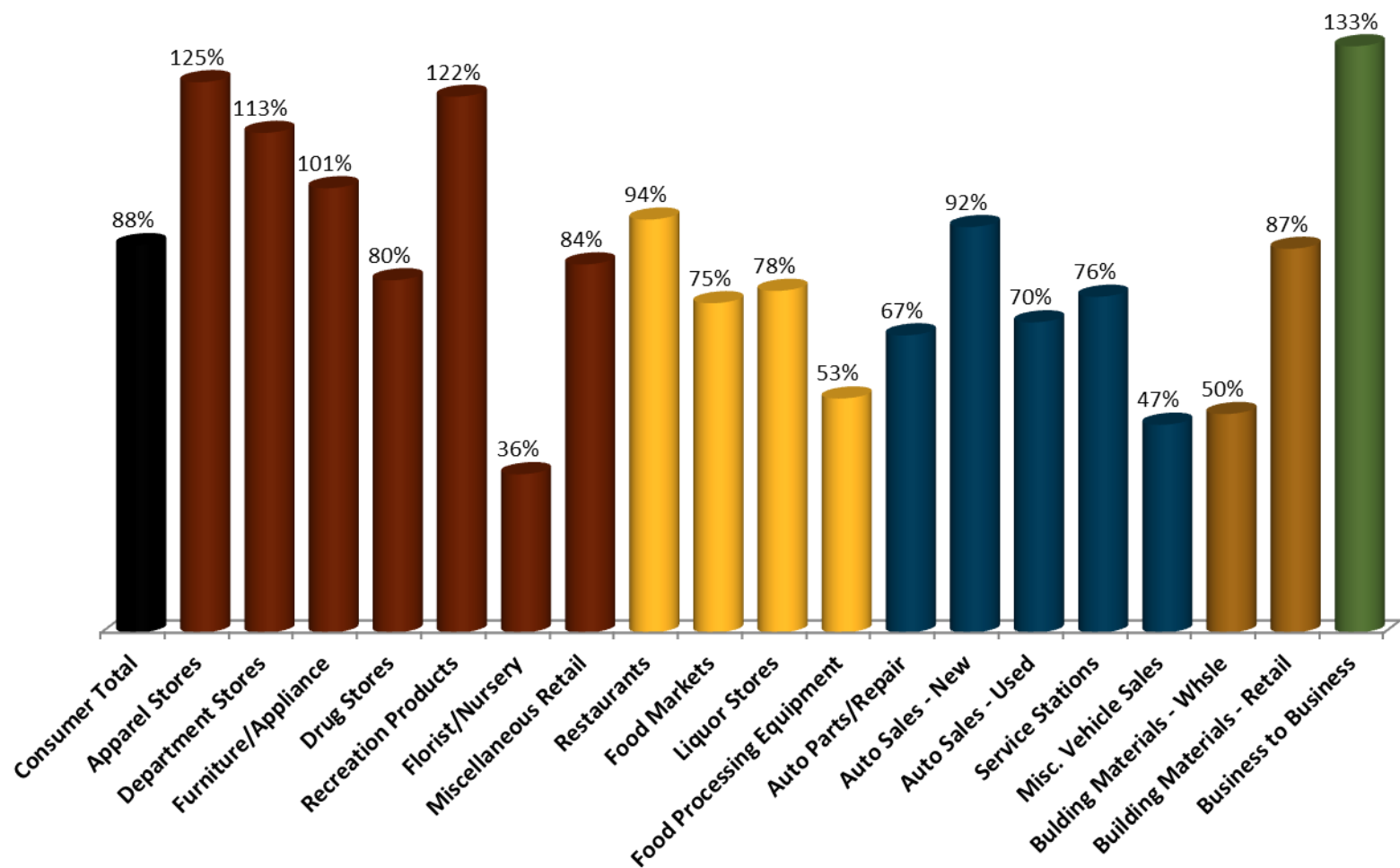
| Predictive Analytics



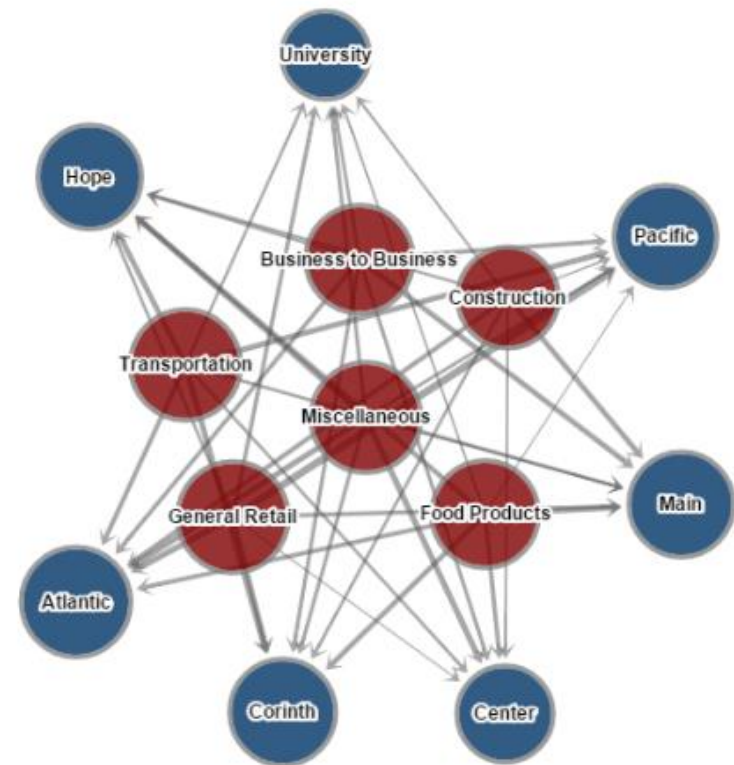
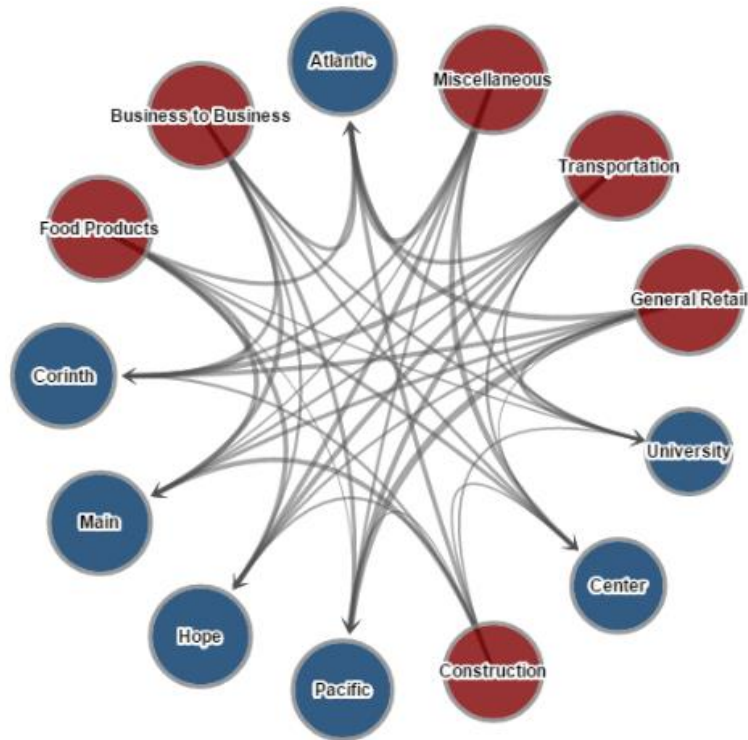
Recognizing changes and fundamental shifts

	Actual	Potential	Capture / (Leakage)	Rate
Transportation	\$2,139,985	\$1,328,393	\$811,592	161%
Auto Parts/Repair	\$341,543	\$139,045	\$202,498	246%
<i>Auto Supply Stores</i>	\$205,123	\$57,266	\$147,857	358%
<i>Vehicle Repair</i>	\$134,127	\$62,631	\$71,496	214%
<i>Vehicle Parts Mfg</i>	\$2,293	\$19,148	(\$16,855)	12%
Auto Sales - New	\$746,216	\$668,677	\$77,539	112%
Auto Sales - Used	\$62,219	\$52,906	\$9,313	118%
Service Stations	\$355,674	\$416,226	(\$60,552)	85%
Misc. Vehicle Sales	\$634,333	\$51,539	\$582,795	1231%
<i>Trailer & Supply</i>	\$592,975	\$14,562	\$578,413	4072%
<i>Boat/Motorcycle</i>	\$41,358	\$18,220	\$23,138	227%
<i>Aircraft & Supply</i>	\$0	\$2,723	(\$2,723)	0%
<i>Transportation Eqp</i>	\$0	\$16,033	(\$16,033)	0%

Combining the right internal and external databases to identify economic needs.



Building community profiles to match against expanding business list



Visualize multi-variable relationships among datasets to recognize patterns and to make policy decisions.

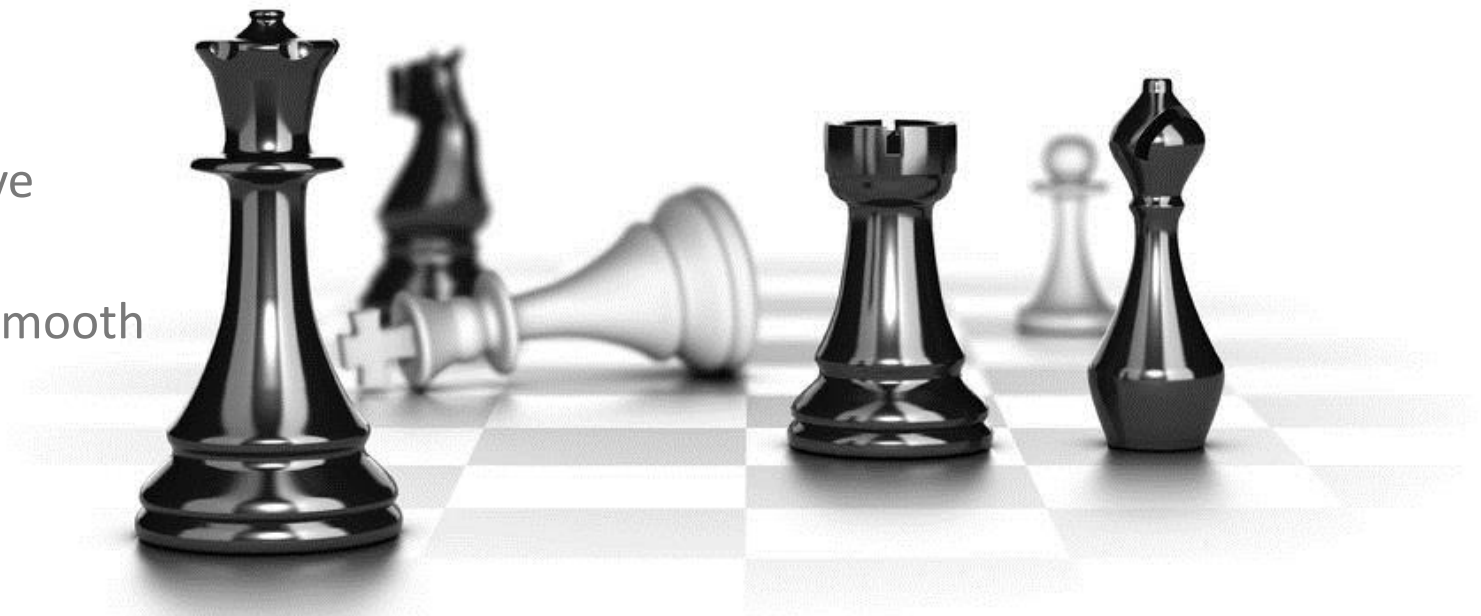
Champion-Challenger Model

Simple Naive

Seasonal Naive

Exponential Smooth

ARIMA



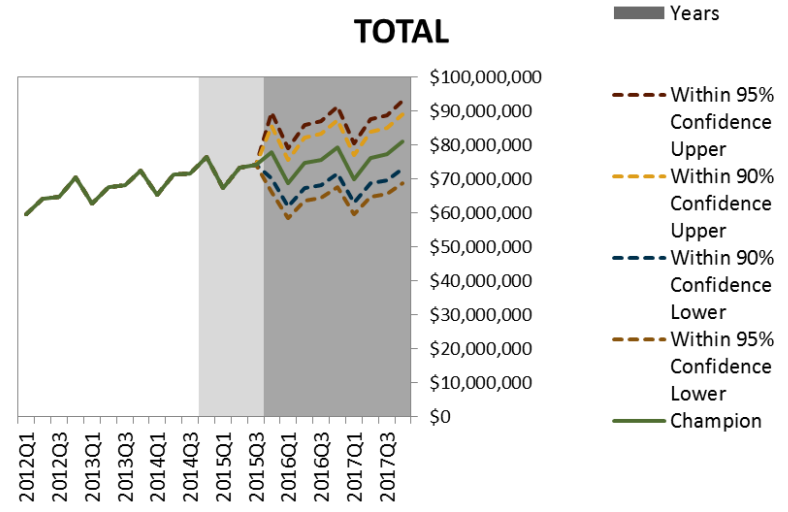
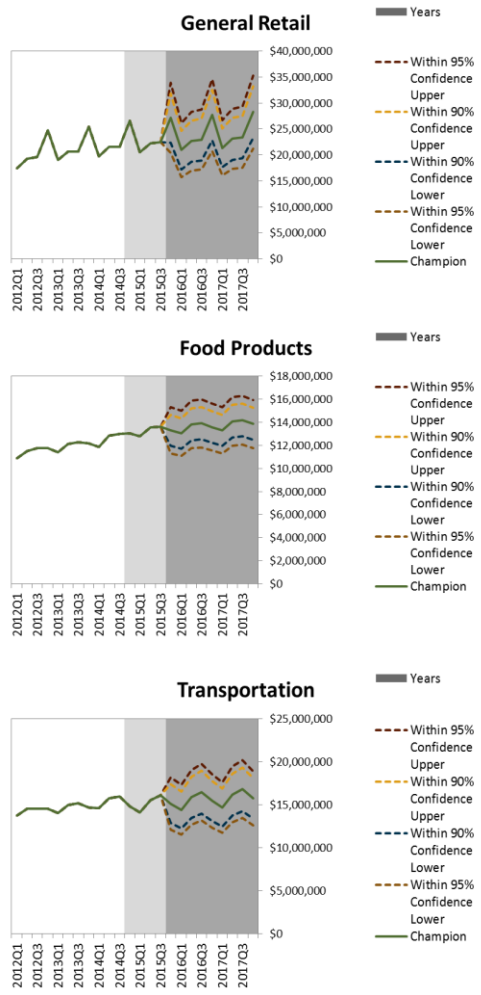
Layers

By Category

By Segment

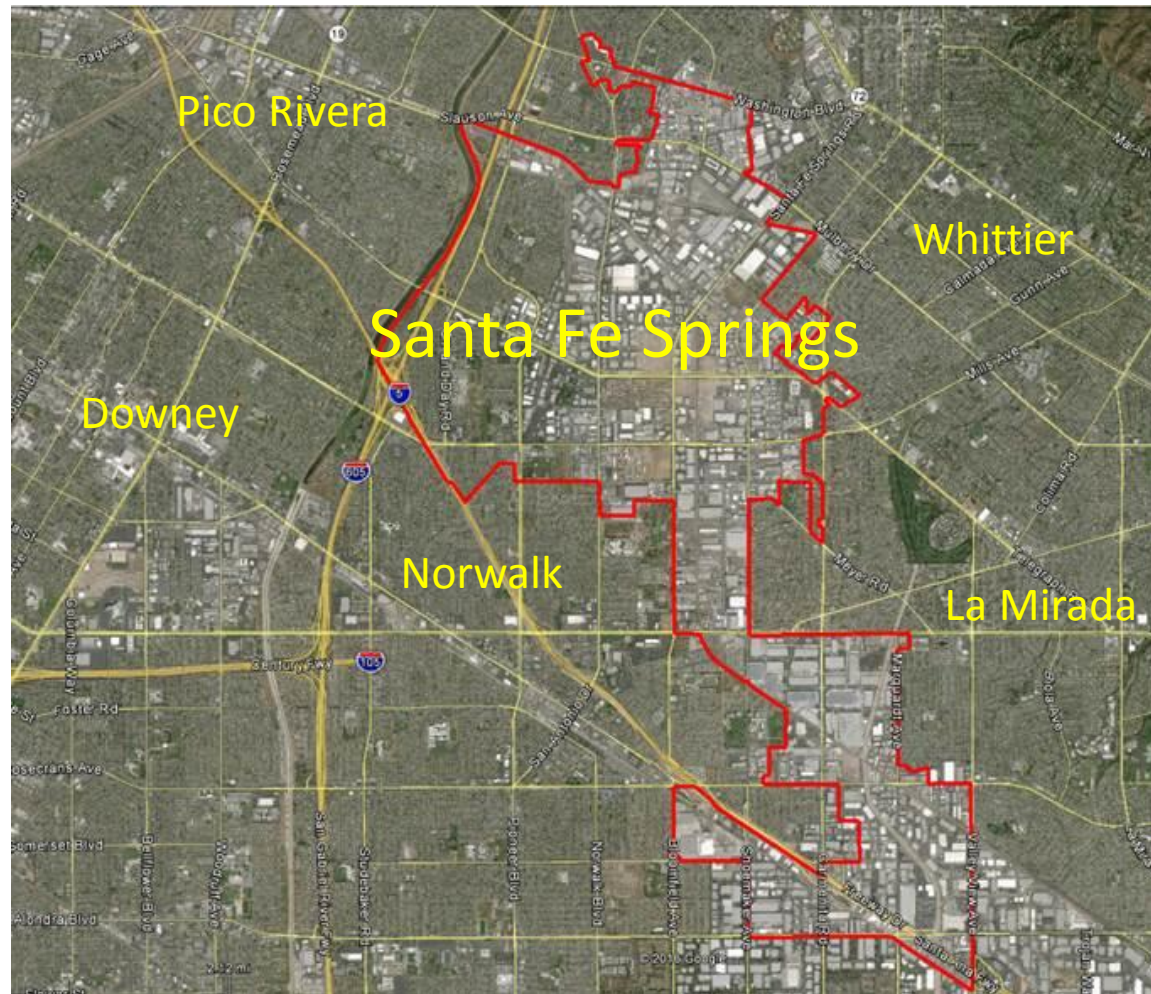
By Type

In Total

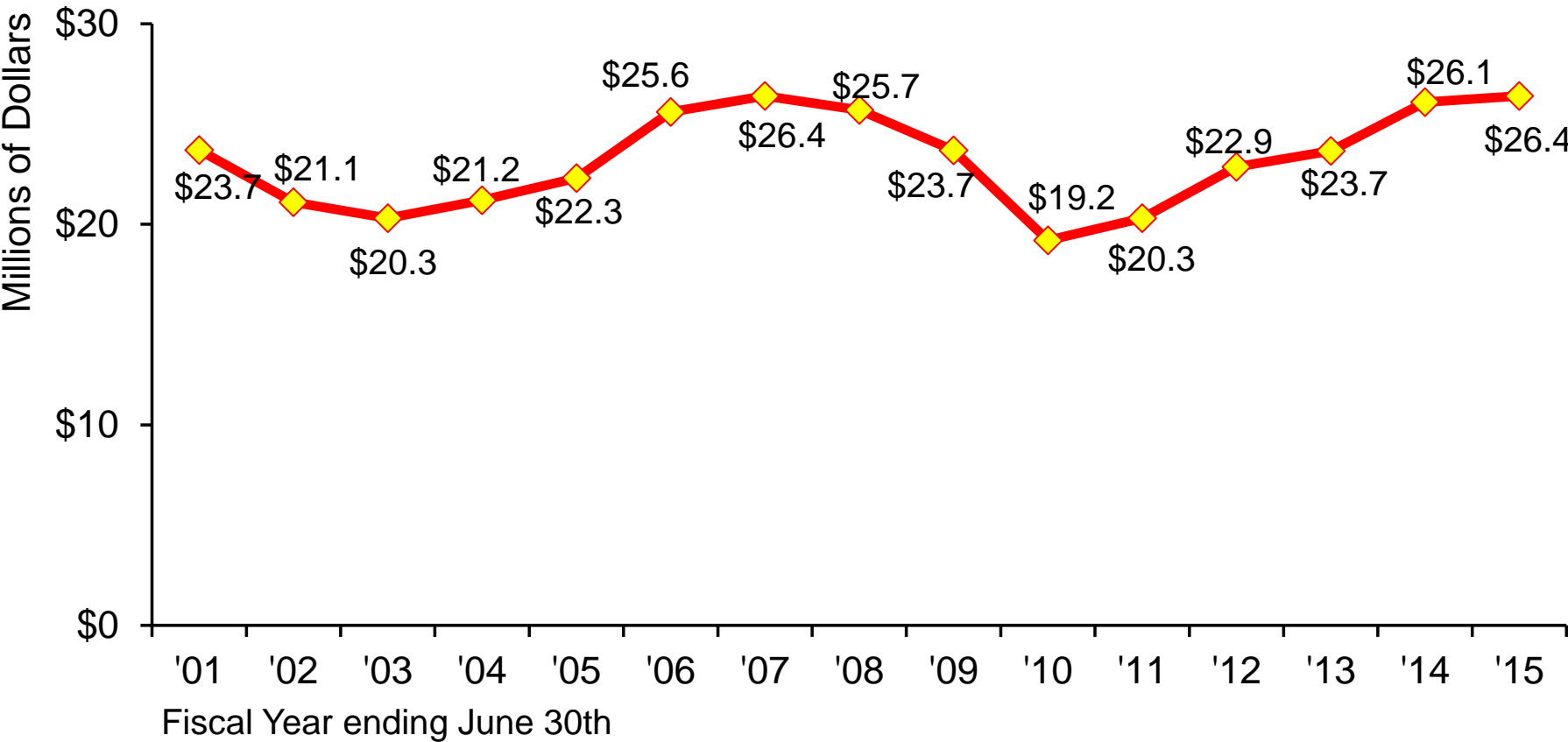




Using data to recognize opportunities to
Attract, Retain and Expand revenues.



Approximately nine square miles, the City of Santa Fe Springs is located at the intersection of I-5 and I-605 in southeast Los Angeles County.



Sales Tax

| Nearly Half of General Fund Revenues

| Volatility

| Demographics

| Trends and Lags

| Effect of Redevelopment Dissolution

Impact

| Land Use/Zoning

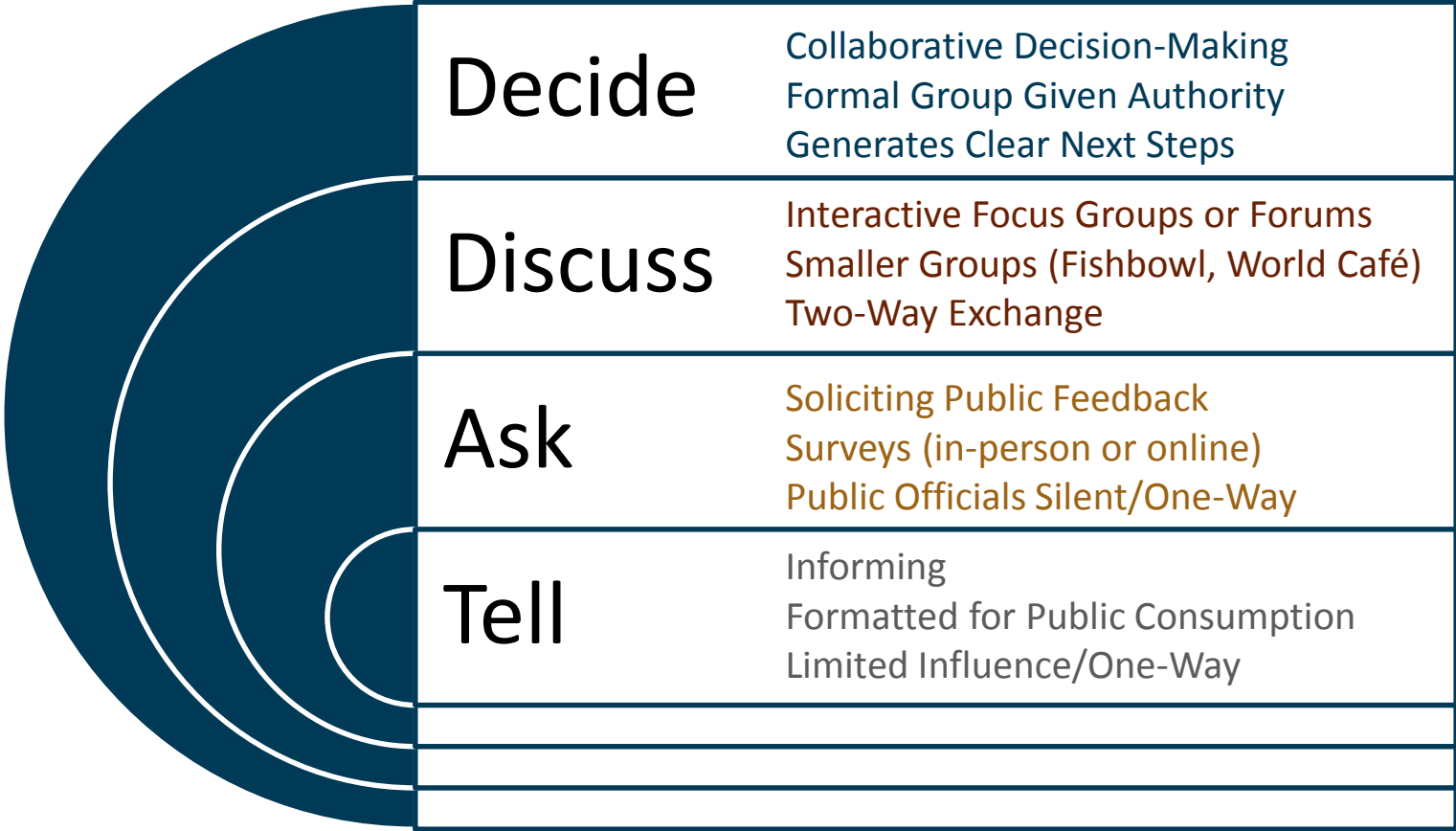
| Business & Resident Outreach

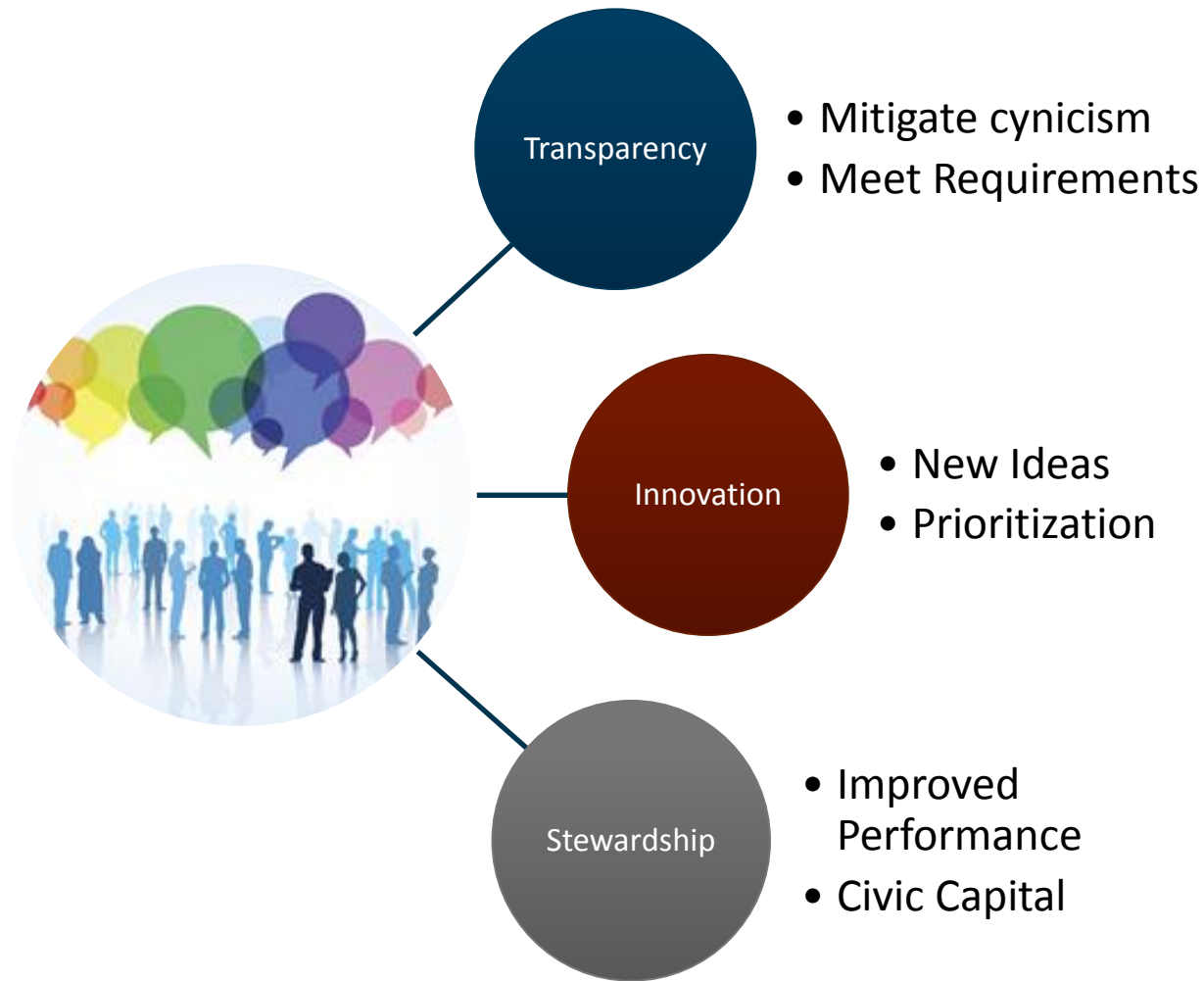
| The Chamber & LAEDC

| Policies & Negotiations

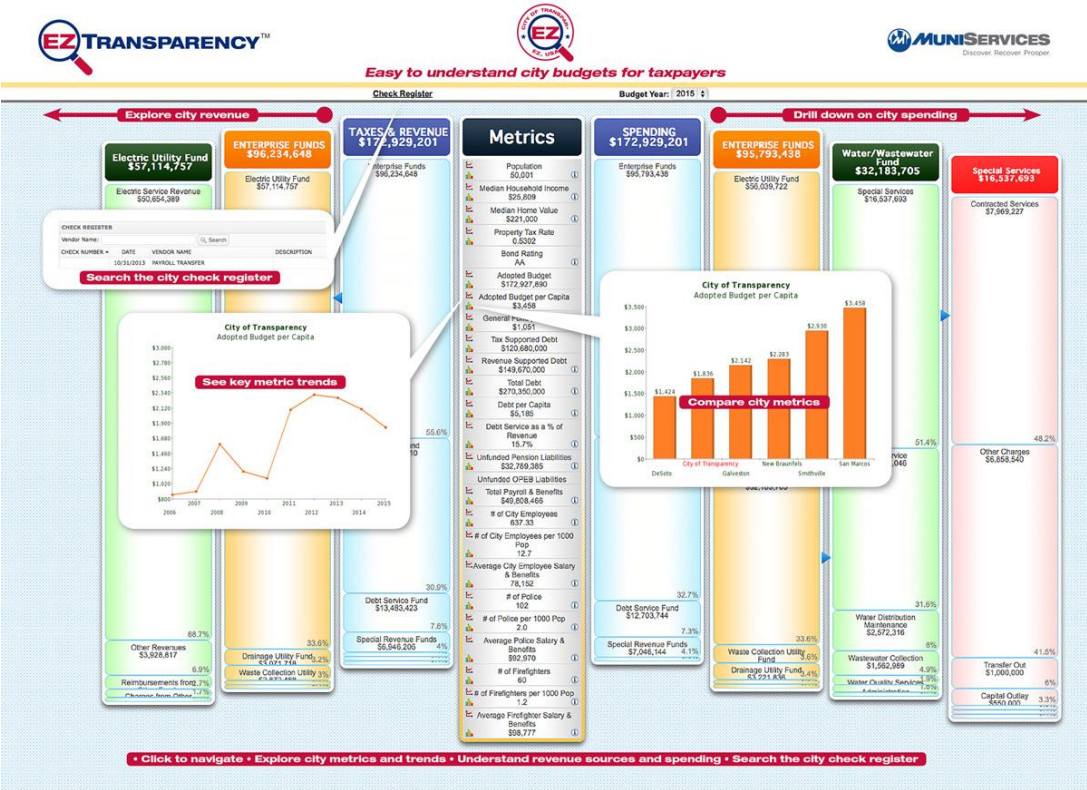
| Revenue Diversification







“Cities around the country have been employing various methods to increase transparency in their day-to-day practices for years now. From broad engines of information like city websites **to more focused tools that display a city’s expenditures....**”, - National League of Cities and the Public Technology Institute



“The rapid emergence of the ‘participative web’ is reflected in the exponential proliferation of wikis, blogs....The tools and practices of the participative web can help improve policy making and service delivery by enriching government interactions with external stakeholders and enhancing internal knowledge management.” - Organization of Economic Cooperation and Development, Studies on Public Engagement



NYC COUNCIL MEMBER JUMAANE D. WILLIAMS & PBNYC
WANTS TO KNOW

HOW WOULD YOU SPEND
\$1 MILLION
TO IMPROVE OUR COMMUNITY?



MAKE YOUR VOICE HEARD AT THE

**PARTICIPATORY
BUDGETING**

IN SEATTLE

HOSTED BY
COUNCILMEMBER NICK LICATA
CITY NEIGHBORHOOD COUNCIL

.....

Participatory Budgeting is a democratic process in which community members directly decide how to spend part of a public budget. Find out how it's worked in other cities, and tell us how it could work here in Seattle!

LEARN MORE

TUESDAY, JANUARY 27th
6PM - 8PM

CITY HALL
BERTHA KNIGHT LANDES ROOM
600 4th AVE

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participatorybudgeting.org
LEARN MORE ONLINE
PBP
PARTICIPATORY
BUDGETING
PROJECT

City	Example
Vallejo, CA	Established the first citywide PB in the U.S., through a City Council Resolution. Through PB, the community decides how to spend \$2.4 million of revenue from the city's Measure B Sales Tax. Vallejo residents propose spending ideas, develop project proposals, and vote on which to fund, then the list of winning projects is submitted to City Council for approval.
Boston, MA	The first youth PB initiative in the U.S., was launched in January 2014 as an initiative of the Mayor's office. The process lets the city's youth ages 12-25 decide how to spend \$1 million of the capital budget.
San Francisco, CA	San Francisco's District 3 introduced a pilot PB program in 2013, empowering residents to directly decide how to spend \$100,000 of discretionary funding for capital projects, programs and activities. The pilot program has since expanded to three districts.



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