9TH Annual Vorys Economic Development Incentives Conference Co-Presented by Vista Site Selection

VORYS VISTA SITE SELECTION

Speaker Info

Matthew T. Samler Senior Managing Director Vista Site Selection

Christopher J. Magill Managing Director Vista Site Selection

Evan L. Stair Managing Director – Analytics Vista Site Selection

Geoffrey J. Troan Managing Director Vista Site Selection

Janie S. Hanna Economic Development Manager Vista Site Selection





Part 1: The Economic Multiplier Effect

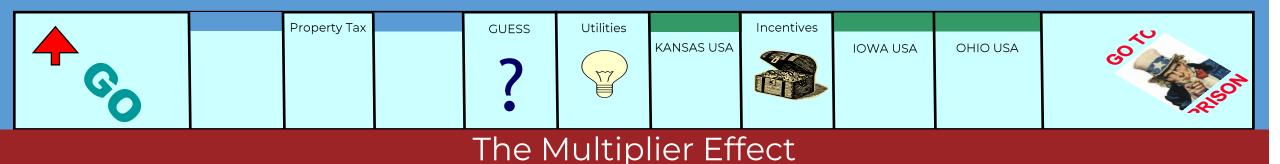
Pharmaceuticals Sector Version

Game Host: Jeff Troan

The public and private sector entities portrayed in this economic simulation game are entirely fictional, any similarity to names, trademarks or entities is purely coincidental.

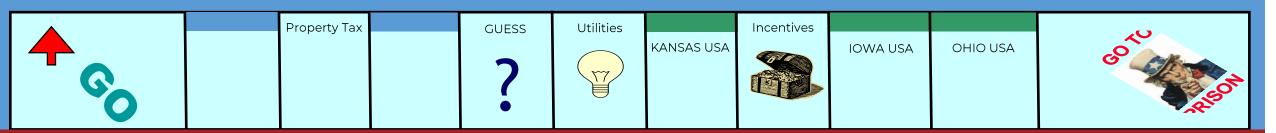
9TH Annual Vorys Economic Development Incentives Conference VORYS VISTA SITE SELECTION \rightarrow \rightarrow

 \rightarrow \rightarrow



At the end of this lesson, you should be able to:

- Understand how direct pharmaceutical jobs generate up to three induced and indirect jobs in the regional economy
- Understand that a new pharmaceuticals payroll is spent multiple times in the local economy
- Understand that tax is incurred based on investment, ownership, sales transactions, business franchise and business income
- Understand that taxed transactions accumulate to the benefit of state and local government





Major Pharmaceutical **Research Company**



Construction



Our Software



Retail Services



State and Local Government



Subcontract Manufacturers

Labor



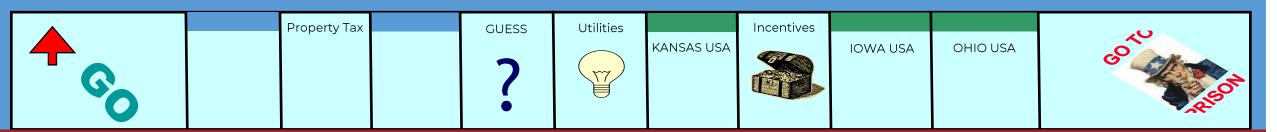


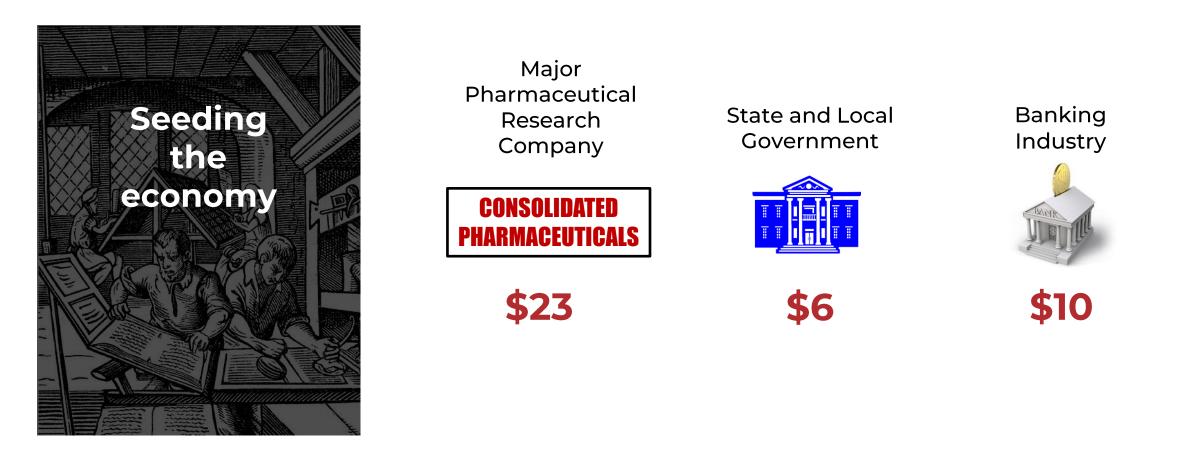
Automotive

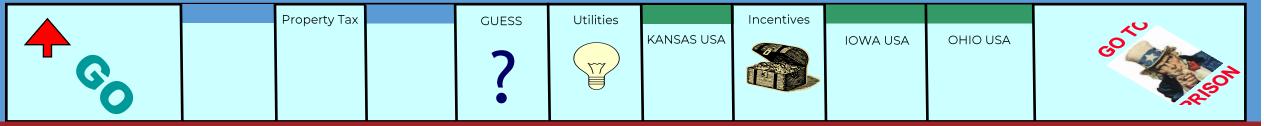
Industrial Trades



Banking Industry









Artificially Intelligent Software





State and Local Government



State and Local Government pledges \$3 support to Wiley-AIS on Consolidated Pharmaceuticals bid.

	Property Tax	GUESS	Utilities	KANSAS USA	Incentives	IOWA USA	OHIO USA	eo Tu
		•						A C



Major Pharmaceutical Research Company

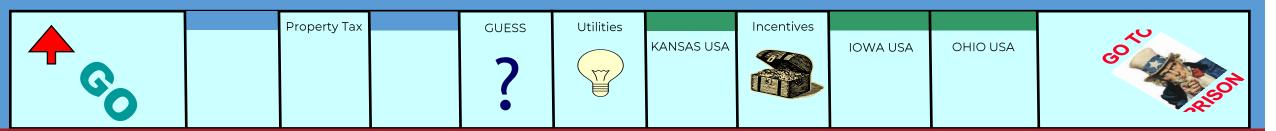
\$20





Congratulations!

Wiley-AIS wins a new Fixed Price Incentive Fee contract to develop DNA Software for Consolidated. Consolidated pays Wiley \$20.







Artificially Intelligent Software

Construction



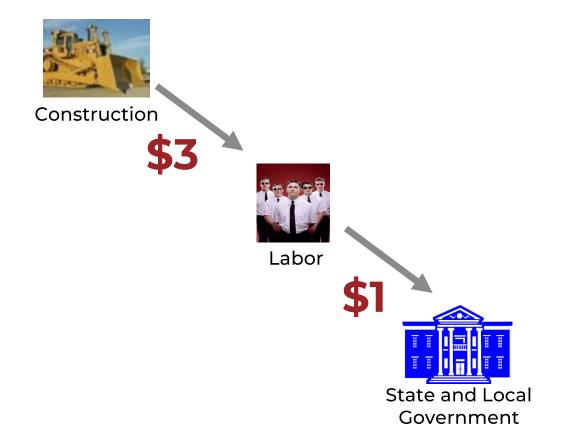




Community Coffers

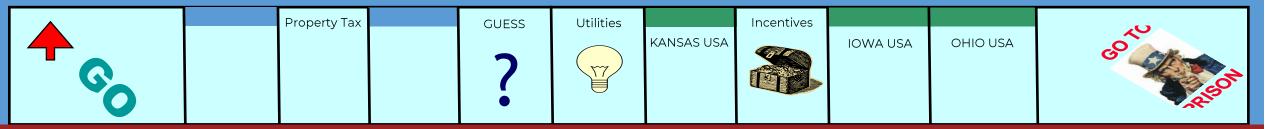
Wiley-AIS constructs infrastructure for contract. State pays Wiley \$3 incentive and Wiley pays Construction \$5 (State gets \$1 in sales and property tax).

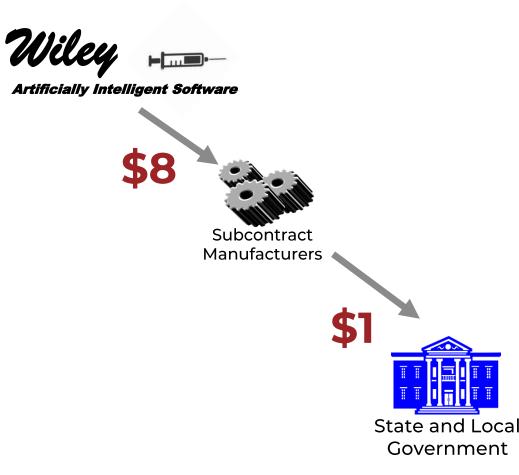
	Property Tax	GUESS	Utilities	KANSAS USA	Incentives	IOWA USA	OHIO USA	GOTU REON
		-						





Construction pays Labor \$3 for services performed building Wiley-AIS infrastructure (State gets \$1 in wage and income tax).

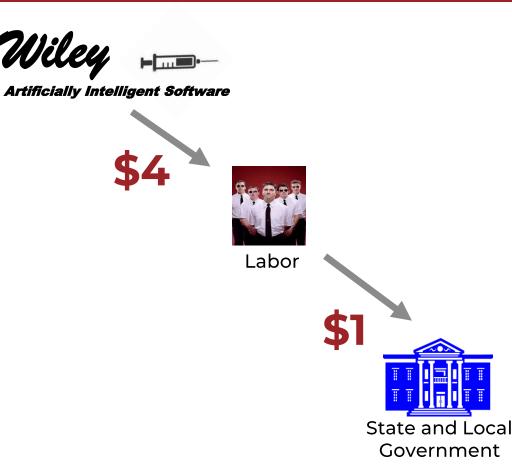




Community Coffers

Wiley-AIS pays Subcontractors for Work completed/undertaken \$8 (State gets \$1 franchise tax).

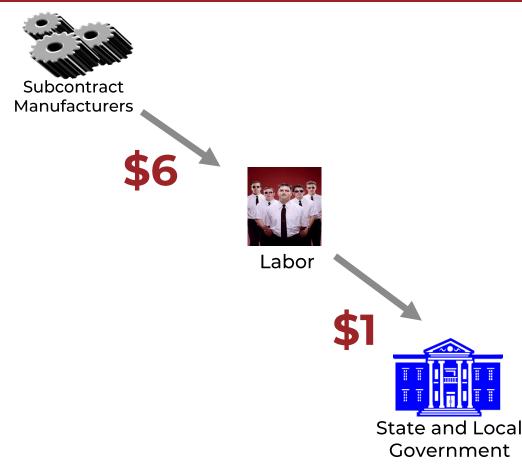
	Property Tax	GUESS	Utilities		Incentives			
₽		?		KANSAS USA		IOWA USA	OHIO USA	GO RISON





Wiley-AIS pays Its employees \$4 (State gets \$1 in wage and income tax).

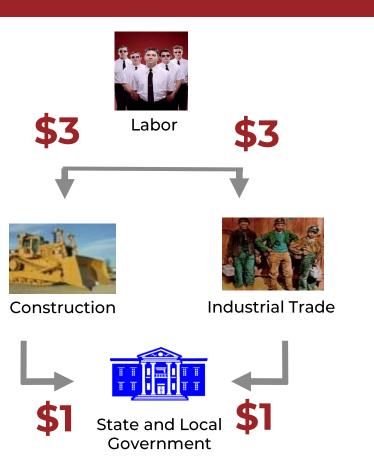
	Property Tax	GUESS	KANSAS USA	Incentives	IOWA USA	OHIO USA	CO CO
°0		•					RISOT





Subcontractors pay their employees \$6 (State gets \$1 in wage and income tax).

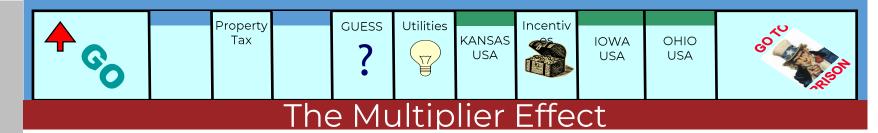
	Property Tax	GUESS	Utilities	KANSAS USA	Incentives	IOWA USA	OHIO USA	SO SON
		•						▼ , Q - ²



Community Coffers

Seeing a thriving economy, Labor buys/refurbishes houses \$6. Pay Construction \$3 and Trades \$3 (State gets \$2 in franchise tax from construction and trades).









Retail Services



Industrial Trade

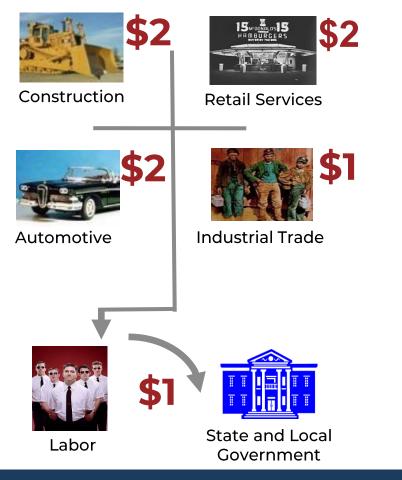


State and Local Government



Labor feels great about the local economy. Workers spend a day on the town...buy on credit \$8! Labor pays Retail \$4 and Automotive \$4 (State gets \$2 in sales and franchise tax).

Property Tax	GUESS	Utilities		Incentives			
	?		KANSAS USA		IOWA USA	OHIO USA	GO RESON



Community Coffers

Induced Sectors pay their workers \$7. Construction pays \$2, Retail \$2, Automotive \$2, and Trades \$1 (State gets \$1 in wage and income tax).

	Property Tax	GUESS	Utilities	KANSAS USA	Incentives	IOWA USA	OHIO USA	
°0		?						RISON















Labor pays off half its credit cards, \$4. (State gets \$1 in franchise tax from the issuing bank).

	Property Tax	GUESS	Utilities	KANSAS USA	Incentives	IOWA USA	OHIO USA	GOTU PISON









Wiley-AIS successfully completes the project, and great cost performance allows them to expand the scope to Consolidated.

Consolidated awards Wiley-AIS \$3 incentive fee.

Conclusions The Multiplier Effect

	US Treasury Seeds the Economy	Wiley-AIS Negotiates Incentive Package with State and Local Government	Wiley-AlS wins Federal Government Contract	State Issues Grant to Wiley-AIS	Wiley-AIS Builds Project Infrætucture	Construction Pays its Laborers	Wiley-AIS Pays its Subcontractors	Wiley-AIS Pays its Employees	Subcontractors Pay their Employees	Labor Buys New Houses and Improves the Ones they Own	Labor Borrows on Credit	Labor Spends a Day on the Town	Induced Sectors Pay Their Labor	Labor Pays of Halfits Credit Card Balance	Wiley-AIS Beats the Target Cost	Consolidated Pays Wiley-AIS the Incentive Fee	End of Simulation Totals	
Consolidated Pharmaceuticals	\$ 23		\$(20)												\$-	\$ (3)	\$ 5 -	
State and Local Government	\$6	\$-		\$ (3)	\$ 1	\$ 1	\$ 1	\$ 1	\$ 1	\$2		\$2	\$1	\$ 1			\$ 5 14	
Banking Industry	\$ 10										\$ (8)			\$3			\$ 5 5	
Wiley Aerospace		\$-	\$ 20	\$3	\$ (5)		\$ (8)	\$ (4)							\$-	3	\$ 5 9	
Wiley Subcontractors							\$7		\$ (6)								\$ 5 1	
Construction					\$4	\$ (3)				\$2			\$ (2)				\$ 5 1	
Retail Services												\$3	\$ (2)				\$ 5 1	
Automotive												\$3	\$ (2)				\$ 5 1	
Industrial Trades										\$ 2			\$ (1)				\$ 5 1	
Labor						\$2		\$3	\$5	\$ (6)	\$8	\$ (8)	\$6	\$ (4)			\$ 6	
Totals	\$ 39	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$ 5 39	

Part 2: Introduction: Software Development for the Healthcare Industry

Matt Samler Vista Site Selection

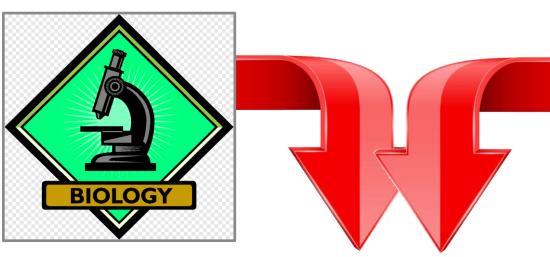
>>>>

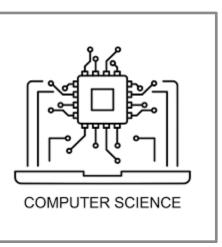
9TH Annual Vorys Economic Development Incentives Conference **VORYS VISTA SITE SELECTION** \rightarrow \rightarrow

 \rightarrow

->

Biology Meets Computer Science





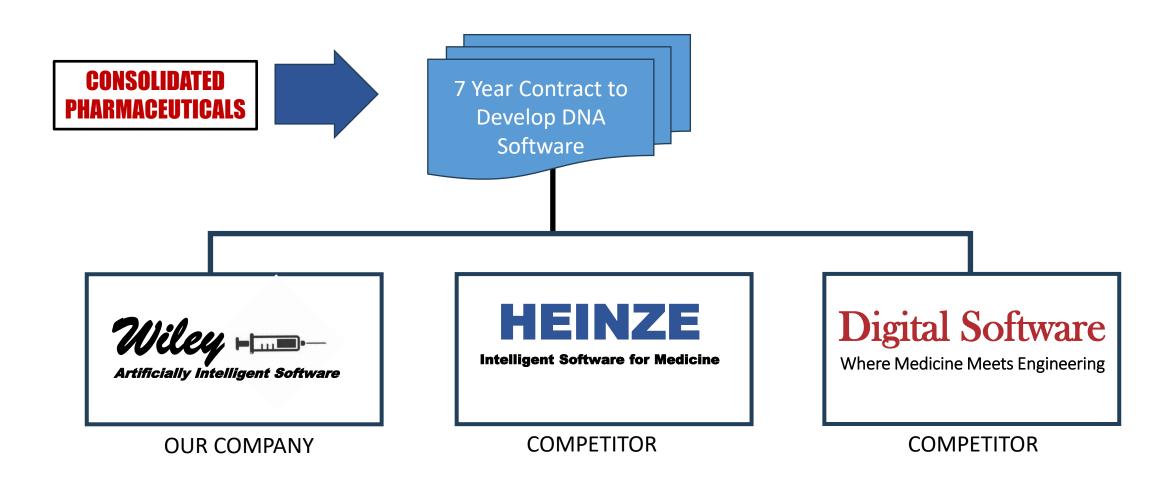
- Accelerate effective treatment protocols and their FDA approval buy comparing DNA structures to known pathogens.
- Determine weak points in the pathogen's DNA structure to kill or sterilize the organism.



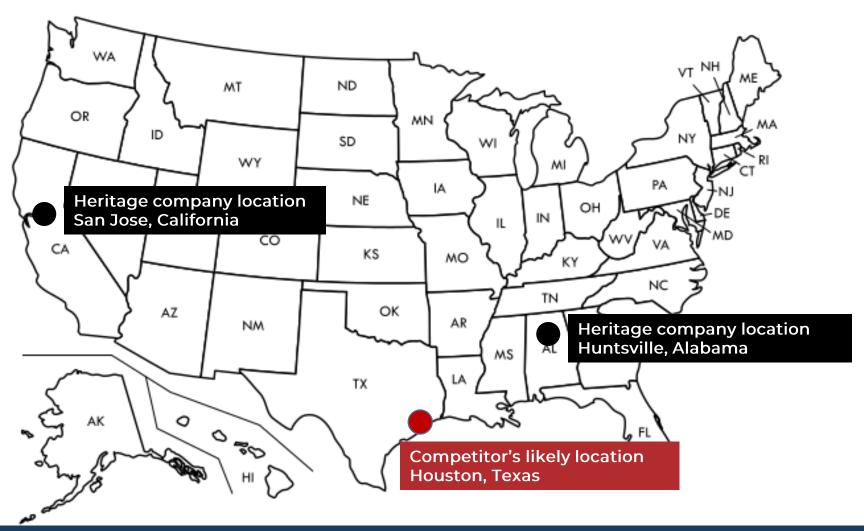
BIOENGINEERING

Consolidated Pharmaceuticals is looking to subcontract a contract to an AI Software Vendor. The project scope is to create software to analyze the DNA of emerging pathogens, developing a correlation to known pathogens DNA patterns, to enhance the process of developing antivirals to kill the pathogens.

Competition for the Work



Heritage Infrastructure Locations



The Scope of the Work

Headcount esti	mates		Headcount
Senior Softwar	e Developer	60%	233
Junior Software	e Developer	40%	155
Systems Engine	ers	10%	39
Engineering Ma	anagers		10
Production Eng	ineering		-
Factory Touch			-
Quality Inspect	ion		20
Quality Enginee	ering		5
Production Cor	ntrol		-
Contract Techn	ical Requireme	nts	5
Contracts			2
Master Plannin	g		10
Finance			5
Program Mana	ger		1
Program Manp	ower		485

- Program will take 7 years to complete.
- Estimated contract value is \$1.0B USD.
- Capex is estimated at \$18.5M for equipment + a building.

Building the Cost Advantage WE ARE GOING TO GENERATE A COST ADVANTAGE ON THESE COMPETING FIRMS



BY ...

VIA...

A: Lowering our labor costs though Advanced Analytics

Analytic Site Selection Techniques



B: Reducing our Investment and Operating Costs through the use of business and workforce development incentives

Artificially Intelligent Software





Part 3: What is the Economic Impact of the Project?

Chris Magill Vista Site Selection

>>>>

9TH Annual Vorys Economic Development Incentives Conference **VORYS VISTA SITE SELECTION** \rightarrow \rightarrow

 \rightarrow

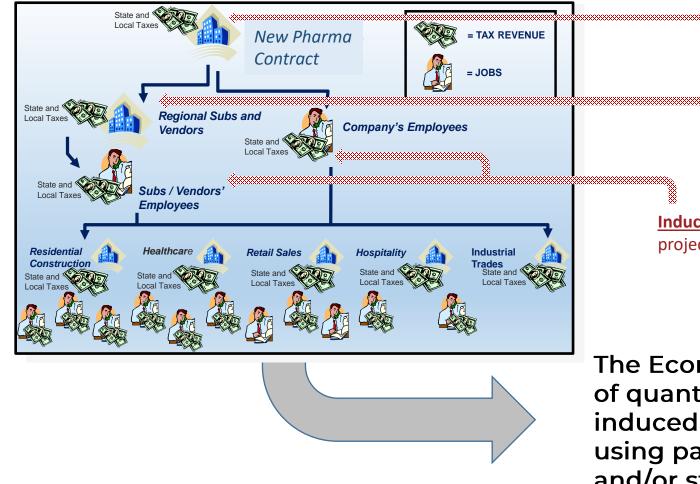
->

 \rightarrow

The Value of the EIS

- An understanding of the public sector's view of the business model for negotiations
- Increased business incentives because the multiplier has been defined
- An internal EIS model can be used to compel the public sector to release its project EIS
- Bid, Technical Volume enhancement
- Define the cap, for the amount of incentives you can reasonably request

Economic Impact Analysis

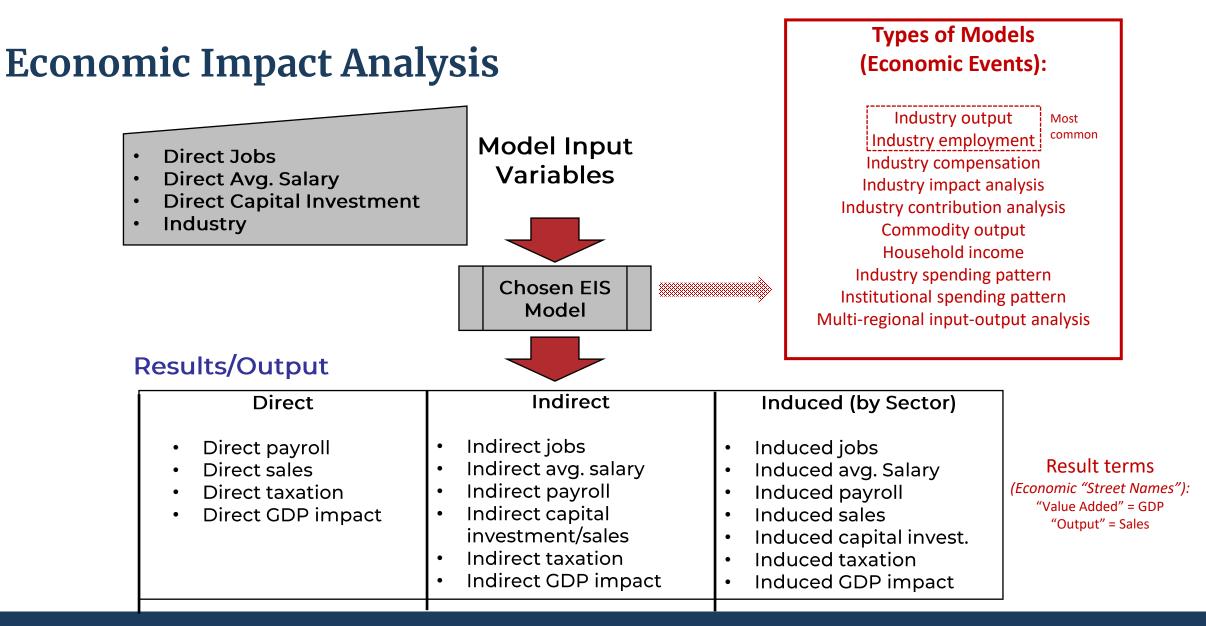


<u>**Direct**</u> – an "event" that may include industry job creation, capital investment or industry sales, among others.

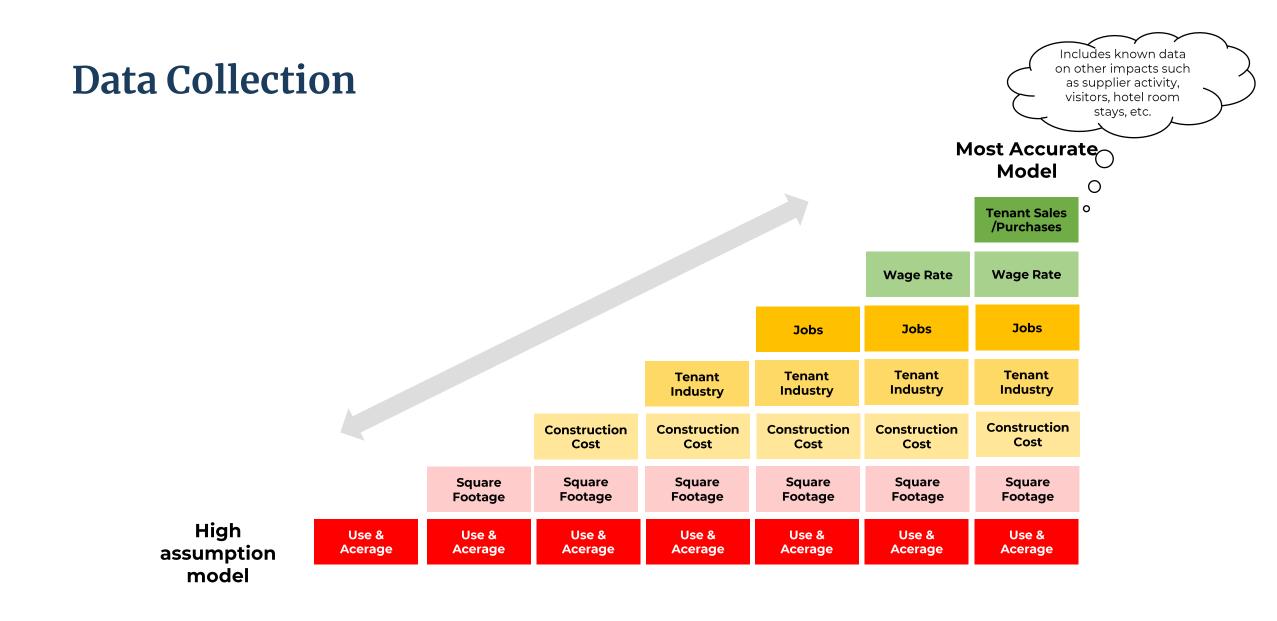
Indirect – impacts from business-to-business transactions resulting from the project (i.e. supplier activity).

Induced – the spending of labor income resulting from the project by households (i.e. supplier activity).

The Economic Impact Study is a means of quantifying the direct, indirect, and induced economic growth from a project using parameters set forth by the federal and/or state government.



9TH Annual Vorys Economic Development Incentives Conference



Part 4: Examining the Competition – What is the Competition Likely to Bid?

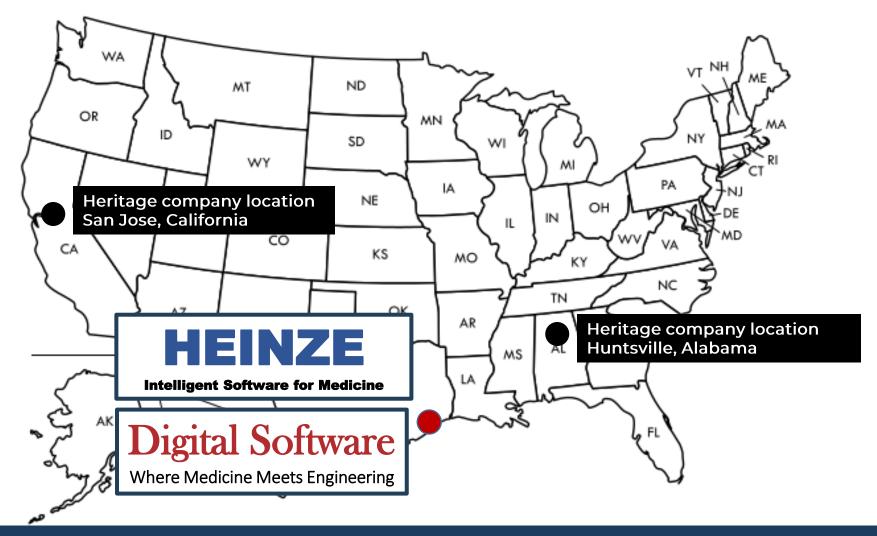
Jeff Troan and Janie Hanna Vista Site Selection

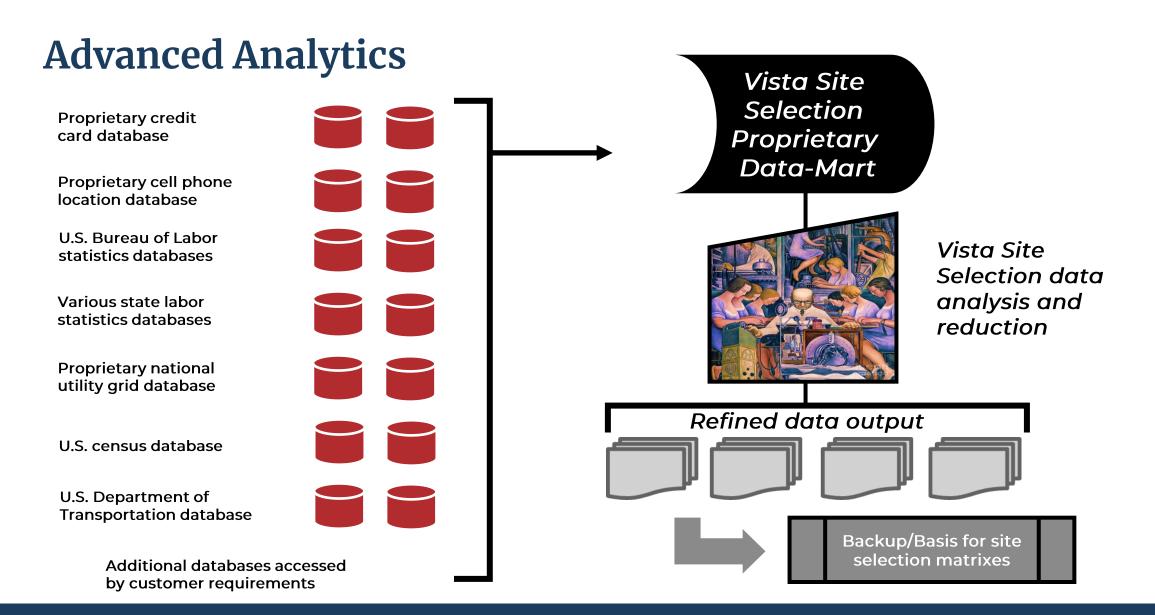
>>>>

9TH Annual Vorys Economic Development Incentives Conference **VORYS VISTA SITE SELECTION** \rightarrow \rightarrow

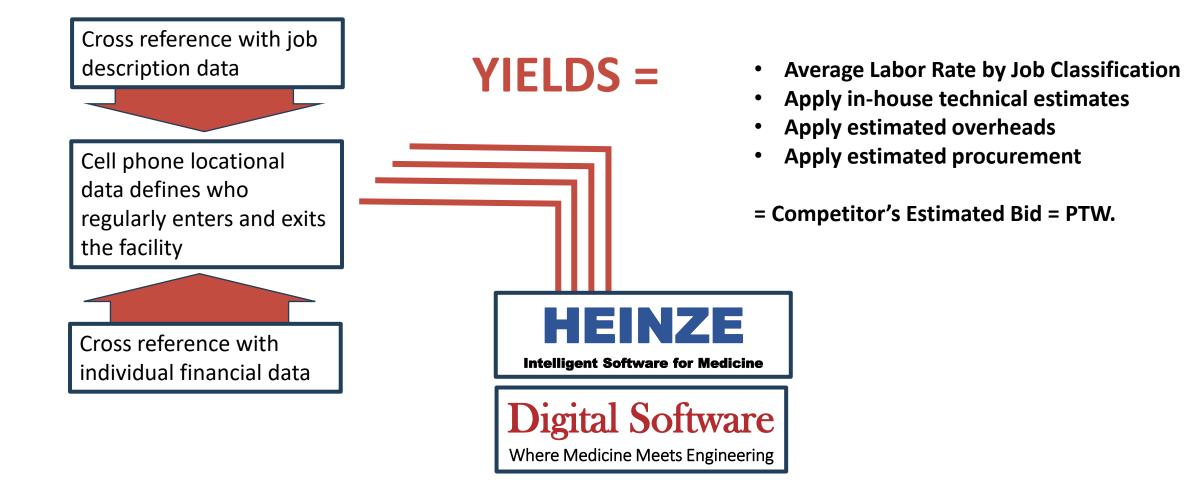
 \rightarrow \rightarrow

Both Competitors are Located in Houston, Texas





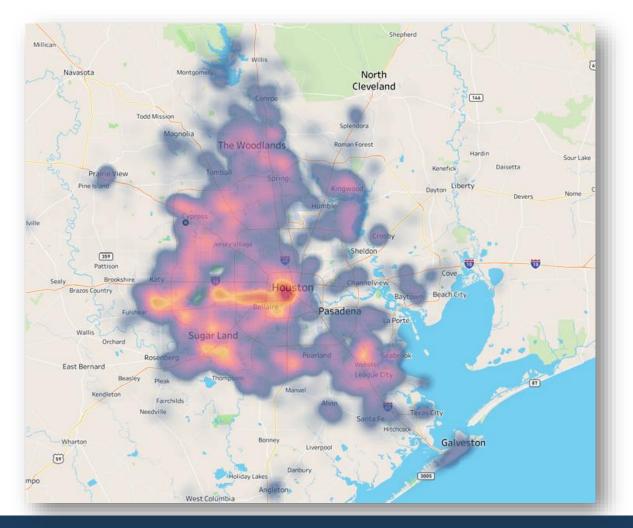
What is the Price to Win?



Houston Demographics



Houston Heat Map



Conclusions

- Both competing companies are paying at the 75th percentile for software developers.
- \$68.38 x 388 software developers x 2,080 hrs/yr x 7 years = payroll of \$386.3M for this labor class.
- \$386.3M payroll for labor class x 120% engineering overhead and 18% General & Administrative overhead = \$1,002.8M bid cost for this labor category.

Part 5: Looking at Company Heritage Sites and Optimal Greenfield Sites

Evan Stair Vista Site Selection

>>>>

9TH Annual Vorys Economic Development Incentives Conference **VORYS VISTA SITE SELECTION** \rightarrow \rightarrow

 \rightarrow \rightarrow

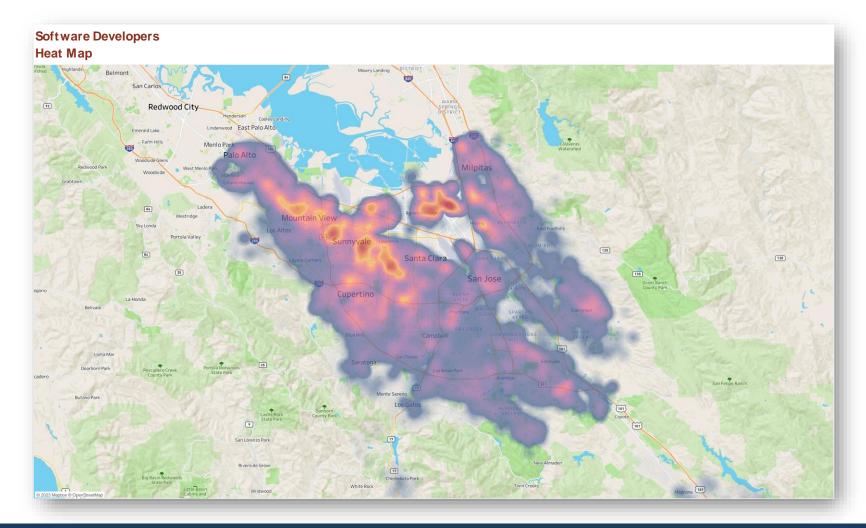
Heritage Infrastructure Locations



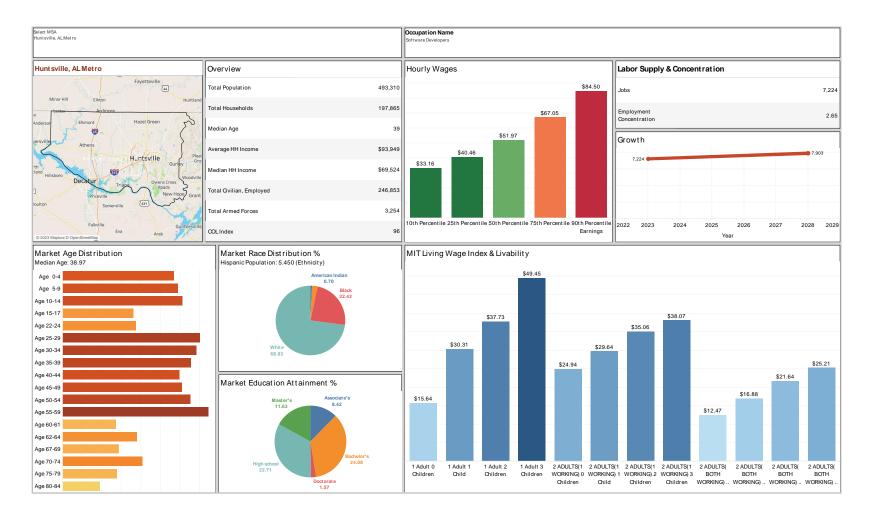
San Jose Demographics



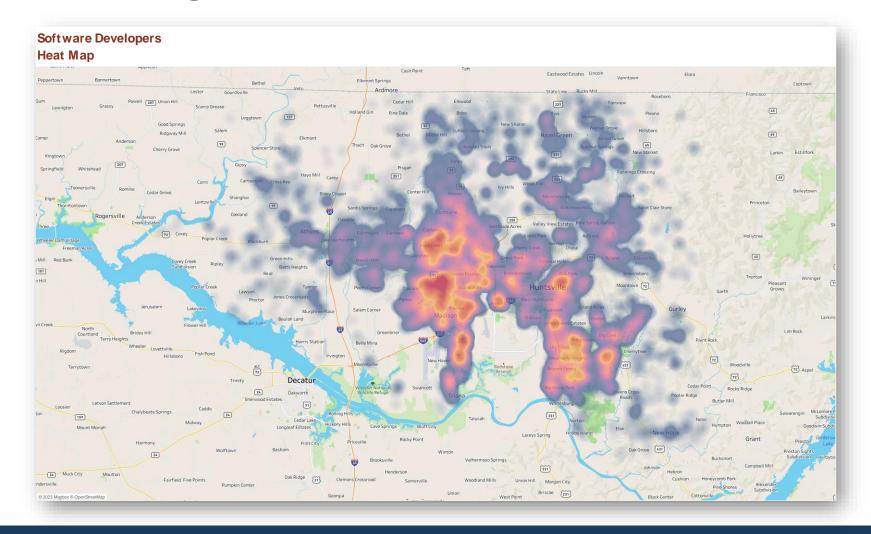
San Jose Demographics



Huntsville Demographics



Huntsville Demographics

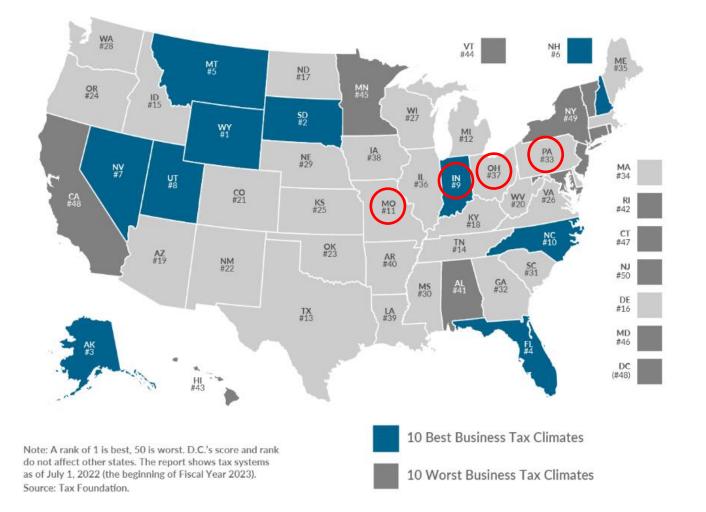


Top 4 Cities with Matching Labor Demographics

Best Ranking Cities

- 1) Indianapolis, Indiana
- 2) Cincinnati, Ohio/Kentucky
- 3) Pittsburgh, Pennsylvania
- 4) Kansas City, Missouri/Kansas

Underlying Tax Climates



Factoring in Business Climate

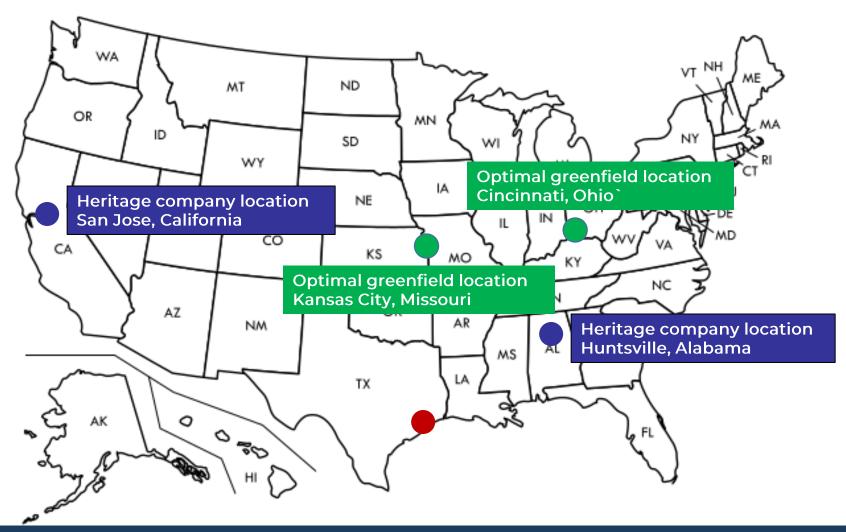
City (MSA)	Baseline Tax Climate	Business Incentives Climate
Indianapolis Indiana	9	Limited
Cincinnati Ohio / Kentucky	37 / 18	Aggressive / Limited
Pittsburgh Pennsylvania	33	Limited
Kansas City Missouri / Kansas	11 / 25	Aggressive / Aggressive

Factoring in Business Climate

City (MSA)	Baseline Tax Climate	Business Incentives Climate
Indianapolis Indiana	9	Limited
Cincinnati Ohio / Kentucky	37 / 18	Aggressive / Limited
Pittsburgh Pennsylvania	33	Limited
Kansas City Missouri / Kansas	11 / 25	Aggressive / Aggressive

- Taking into account taxes and incentives:
 - Kansas City looks like a good location
 - Cincinnati is in the pack and aggressive with incentives
 - These two sites also offer the opportunity to solicit incentives from two states, as their MSAs cross state lines

Final Sites for the Site Selection Matrix



Reviewing the Labor Costs

Software Developers												
	Hiring		Hourly	(Cost Per		Annual	7 Year Project	7 Year Projec		Price-To-Win	
	Percentile	Basis	Cost	Emp	loyee / Year	Pro	oject Payroll	Payroll	Burdened		Variance	
Houston, TX	75th	Analytics	\$ 68.38	\$	142,230	\$	55,185,395	\$386,297,766	\$1,002,794,20	2\$	-	even
San Jose, CA	62nd	Actual	\$ 105.16	\$	218,733	\$	84,868,326	\$594,078,285	\$1,542,173,71) \$	(539,379,508)	overrun
Huntsville, AL	82nd	Actual	\$ 75.78	\$	157,622	\$	61,157,491	\$428,102,438	\$1,111,315,36	. \$	(108,521,163)	overrun
Cincinnati, OH/KY	75th	Analytics	\$ 62.91	\$	130,853	\$	50,770,886	\$355,396,205	\$ 922,576,53	\$	80,217,670	underrun
Kansas City, MO/KS	75th	Analytics	\$ 61.54	\$	128,003	\$	49,665,242	\$347,656,691	\$ 902,485,45	. \$	100,308,750	underrun

Part 6: Building the Site Selection Matrix

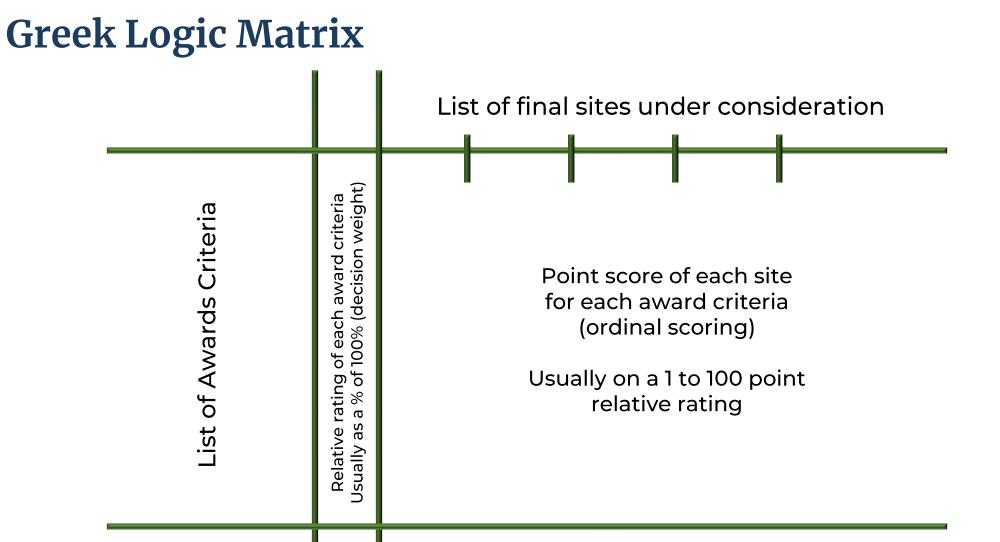
Jeff Troan Vista Site Selection

>>>>

9TH Annual Vorys Economic Development Incentives Conference **VORYS VISTA SITE SELECTION** \rightarrow \rightarrow

 \rightarrow \rightarrow

 \rightarrow

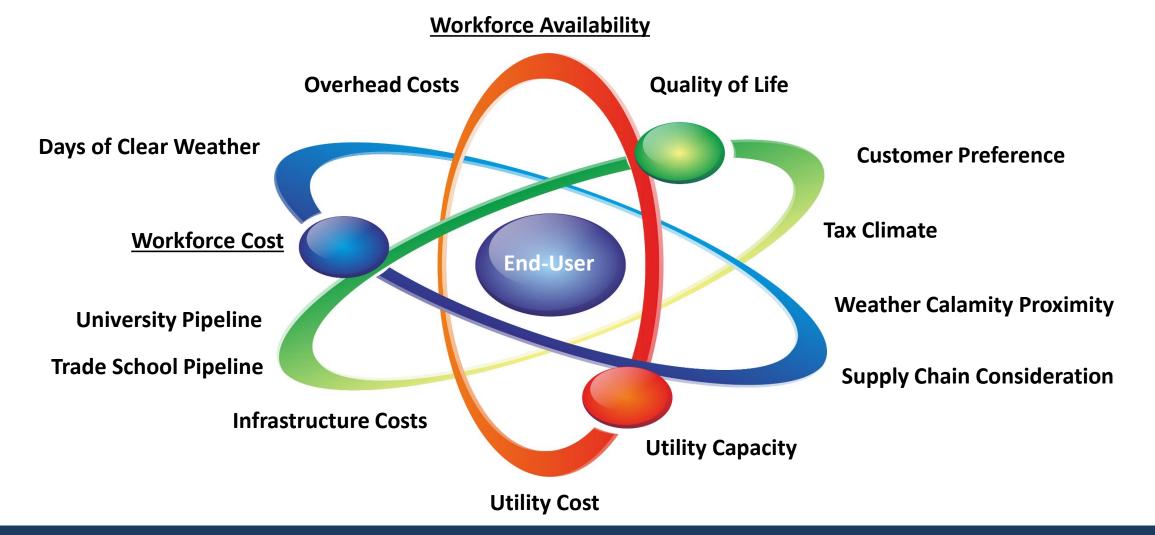


Final site rating = sum (decision weights x ordinal scores)

Considering the Qualifiers

Award Criteria	Weight	Site 1, Site 2, etc
Digital Qualifiers – These are qualifiers that either work, or it is impossible to utilize the site.	NA	Go/NoGo
Examples: Density Altitude Rule; Hurricane Avoidance; Temperature/Humidity for Production; Workforce Availability		
Analog Qualifiers - These are qualifiers to which a <u>decision</u> weight and <u>ordinal score</u> can be applied.	1% to 100%	1 to 100 Points
Examples: Days of clear weather; land cost; facility cost; infrastructure incentives; labor demographics; direct cost of labor; workforce development incentives; wage incentives; real property tax; sales and use tax; state income tax; vat tax; gross receipts tax; federal income tax; tax incentives.		
Qualifiers and weights are specific to each project		

The Qualifiers are Up the End-User



Key to a Good Matrix

- Comprehensive data collection and reduction
- Aggressive early business incentives work
- Extensive analysis of Greek logic matrix factors
- Participative Kaizen blitzes with a consensus decision
- Matrix breaks down a very complex decision into a series of manageable small component decisions
- Matrix enables the Kaizen process by externalizing the site selection logic
- Capture manager can easily explain the logic of the site selection

Detailed application of a site selection Kaizen process is covered later in the course

Part 7: Incorporating the Impact of Business Incentives into the Matrix

Janie Hanna Vista Site Selection

>>>>

9TH Annual Vorys Economic Development Incentives Conference **VORYS VISTA SITE SELECTION** \rightarrow \rightarrow

->

 \rightarrow

Adding Business Incentives to the Matrix

Consolidation Pharmaceuticals Bid	Factor	Houston	San Jose	Huntsville	Cincinnati	Kansas City	
	Weighting	тх	СА	AL	ОН/КҮ	MO/KS	
Site Type		PTW Site	Heritage	Heritage	Greenfield	Greenfield	
Digital Qualifiers (GO or NOGO)							
Labor Availability	not applicable	GO - 1	GO - 1	GO - 1	GO - 1	GO - 1	
Analog Qualifiers (1-100)							
Labor Cost	30%	80	10	65	93	95	
etc.	10%	;;;	???	???	???	???	
etc.	8%	???	???	???	???	???	
etc.	12%	???	???	???	???	???	
Subtotal Score Before Incentives	100%	???	???	???	???	???	
Business Incentives Score Adjustments							
<u>California / San Jose</u>							
The State of California and City of San							
Jose offered a special legislative				•	The variance	e to PTW is \$5	39M.
incentive rebating 80% of employee				•	The point sp	read to PTW	is 70 points
withholding tax to the company.			7.8	•	The Incentiv	e offsets \$200)M/\$539M
Estimated value is \$200M against						as a 30% deci	
project labor cost deficiency.) points x 30%	Ŭ

9TH Annual Vorys Economic Development Incentives Conference VORYS **VISTA SITE SELECTION**

Part 8: Developing the Final Site Selection Recommendation

Jeff Troan Vista Site Selection

>>>>

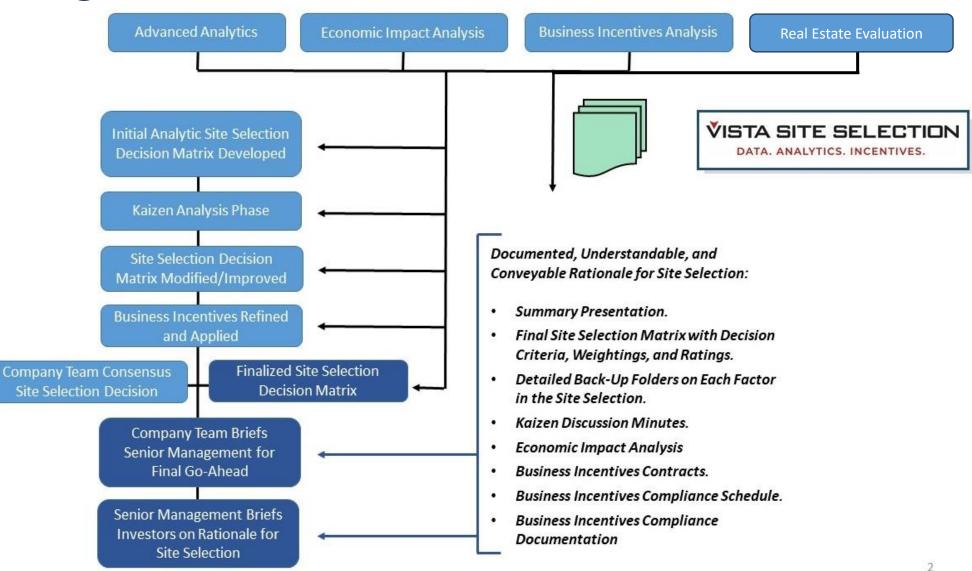
9TH Annual Vorys Economic Development Incentives Conference **VORYS VISTA SITE SELECTION** \rightarrow \rightarrow

 \rightarrow \rightarrow



- Project team includes all affected parties
- Decisions are collaborative (sign-up sheet)
- Team lead functions as a facilitator of discussion and tie breaker (consultant provides logistics support)
- Process under review is dissected by the team to Identify waste, inconsistency and imbalance
- Small changes are made incrementally
- Cumulative impact of small changes is an optimized process
- Kaizen blitz is a series of scheduled team meetings where the project team incrementally improves the process under review

Adapting the Kaizen for Site Selection



Part 9: Briefing Upper Management on the Recommendation

Matt Samler and Chris Magill Vista Site Selection

>>>>

9TH Annual Vorys Economic Development Incentives Conference **VORYS VISTA SITE SELECTION** \rightarrow \rightarrow

 \rightarrow

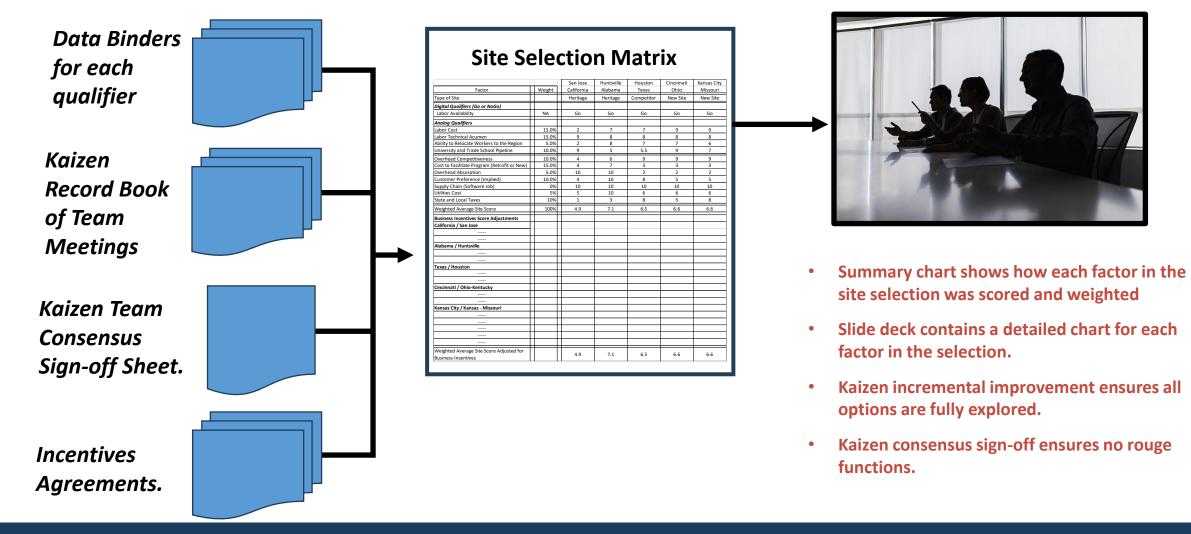
 \rightarrow

Analytic Site Selection on the Rise

- Corner office management, oversite boards and investor have come to realize that site selection drives the big three cost factors: labor, benefits, and physical plant.
- Oversight boards and investors want to know, "WHY THERE?"
- Bad proposal siting = Wasted overhead and resources
- Bad Siting breeds a slow painful bleed to extinction
- TQM = Analytic justification required

Site Selection Teams need to be able to explain a complex site decision

Armed to Explain the Site Selection







Matthew T. Samler

Senior Managing Director



Christopher J. Magill

Managing Director



Evan L. Stair

Managing Director – Analytics



Geoffrey J. Troan

Managing Director



Janie S. Hanna

Economic Development Manager

Ouestions?



Further Question or Concerns? Not to worry, the Vista Group will be around here all week!