Unseen Economic Development: Maximizing Local Procurement in Downstream Investment

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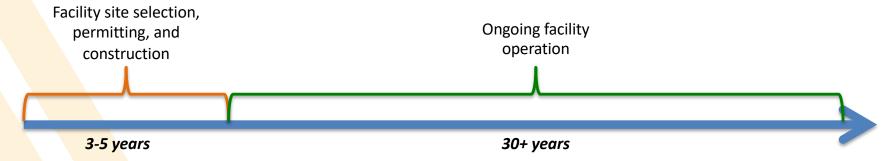
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Capturing growth from a new regional chemical project



A world scale petrochemical project creates opportunity in two phases

- Site Selection, Permitting, and Construction: Employment of 6,000+ workers and all services to support them
 - Engineering services, earthworks, civil, mechanical, construction services, raw materials, fabricated equipment, etc.
 - Construction support services including hotels/housing, rental equipment, food service, parking, trucking, personnel movement, staffing, fabrication shops, equipment staging, warehousing, terminating and logistics and other service facilities
 - Staff support services including educational services, day care services, outpatient healthcare, etc.
- Ongoing Facility Operation: Employment of 400-600 operations staff and all of the services to support them
 - Maintenance services, regional fabrication yards, rail logistics facilities for inbound and outbound product movements, equipment maintenance facilities, real estate development (office, warehousing, industrial), finance and insurance, etc.
 - Suppliers' regional offices, suppliers' R&D facilities, emerging cluster of downstream companies (similar to SouthPointe)
 - Mixed-use retail, hotels, restaurants, arts & entertainment, outpatient medical facilities, fire, police and emergency services



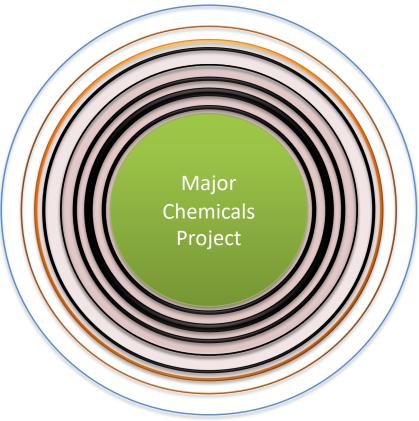
Ripple Effects: Primary and Secondary economic impacts

Two time periods, two impact types

Impacts during construction (3-5 year period):

- <u>Primary economic impacts</u>: Building the plant;
 6000+ construction jobs, direct jobs created by local businesses serving the construction project
 (e.g. utilities, professional services, equipment suppliers, parts suppliers)
- <u>Secondary economic Impacts</u>: All the regional businesses supporting the people, parts, services and inputs to the major chemicals project
 - Health care
 - Food service
 - Hotels/apartments
 - Retail trade

- Warehousing
- Parts fabrication and manufacturing
- Transportation services



Think of all of the services you need to support a small city of workers arriving to the job site every day?



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Ripple Effects: Primary and Secondary economic impacts

Two time periods, two impact types

Impacts during operation (30+ year period):

- Primary economic impacts: 400-600 high-wage operations jobs at the facility, earning 1.5 to 2x the average regional wage
- Secondary economic impacts: 2000 to 3000 additional jobs at regional companies and support organizations in and around the new plant
 - Adjacent chemical industries
 - Research & development
 - Contract maintenance
 - Parts suppliers
 - Real estate
 - Retail trade

- Schools
- Government services
- Health Care
- Financial services
- Arts & Entertainment

<image>

Hundreds of newly employed families drive growth of nearby communities, opportunities for adjacent industries, and a broad expansion of goods and services



Radiating impact: Capturing opportunity downstream

Certain sectors stand to gain the most:

- Wholesale trade (raw materials, parts, business-tobusiness transactions)
- Construction
- Retail trade
- Health Care and Social Services
- Transportation and Warehousing services
- Professional services
- Accommodation and food service
- Big opportunity for small businesses: Companies with fewer than 20 employees are concentrated in professional services, retail trade, and construction
- Radiating opportunity: Not all impacts are within the immediate vicinity
 - Raw material supply
 - Parts fabrication
 - Downstream plastic part manufacturers
 - Information technology services





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Questions?

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