

A Smart Supply Chain for San Leandro's Smart City

Web Application Optimizing San Leandro's Manufacturing Supply Chain
and Economic Data Collection



Post-STiR Service Proposal

STiR  San Leandro

 SyncFab



 SyncFab

STiR Success!!!
Photo from our
presentation at
ACT Strand
Theater in SF
9/16/16



San Leandro Manufacturing Economic Development Challenge



STR
SF MAYOR'S
OFFICE OF CIVIC
INNOVATION

$\frac{2}{3}$ Employment MFG Related

24% Industrial Zoning

63% Logistics not Making

<50% Factory Capacity

***SOURCE: San Leandro Next Generation Workplace**



Challenge Deep-Dive

Low MFG Sentiment

Industry Disaffection

SyncFab has visited dozens of factories.

Many expressed they feel unsupported.

This proposal is being made to offset part of that feeling.

Opaque Supply Chain

Economic Isolation

San Leandro supply chain is word-of-mouth.

Unmapped resources hide economic development potential.

Factories have little to no marketing budget.

Limited MFG Data

Less Informed Policy

Data limited to reported earnings numbers with little regional industry insight.

San Leandro has a unique opportunity to lead in the solution.



Our Solution:

**A web application
that optimizes
San Leandro's
Supply Chain and
Economic Data
Collection**

1) Map Advanced Manufacturing Capabilities and Capacity

2) Repurpose underutilized capacity to attract new regional demand driving more economic development.

3) Generate insightful data the city can use to support more impactful policy decisions related to manufacturing.



STEP 1: Map Smart Supply Chain

Repurpose Capacity

1. Map San Leandro's Adv. Manufacturing Capabilities
1. Identify underutilized Adv. Manufacturing Capacity
1. Repurpose that Capacity as "Adaptive" for New Demand

SELECT PROCESS

All

SELECT MATERIAL

All

ADDITIONAL FILTERS

39 ADVANCED MANUFACTURING PROCESSES IN SAN LEANDRO, CA

6 CNC Machining Sources at [Machine Shop](#) in San Leandro, CA

San Leandro, CA, United States

5 Axis CNC Machine



ORDER PARTS

VIEW SPECS



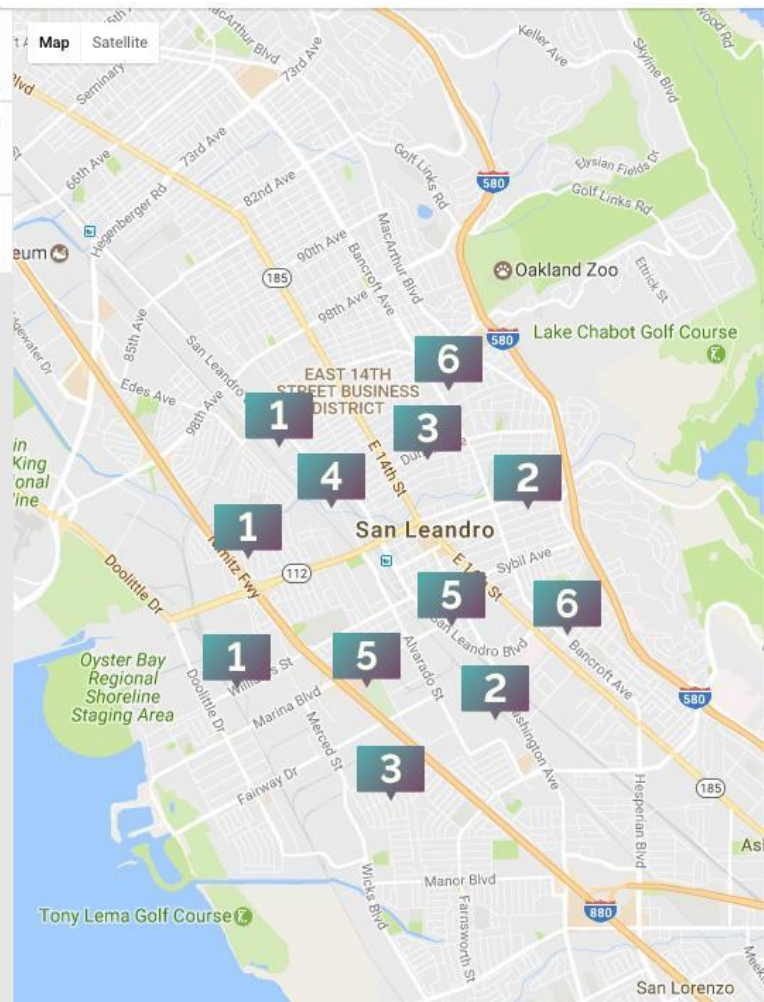
San Leandro, CA, United States

Electron Beam Welding



ORDER PARTS

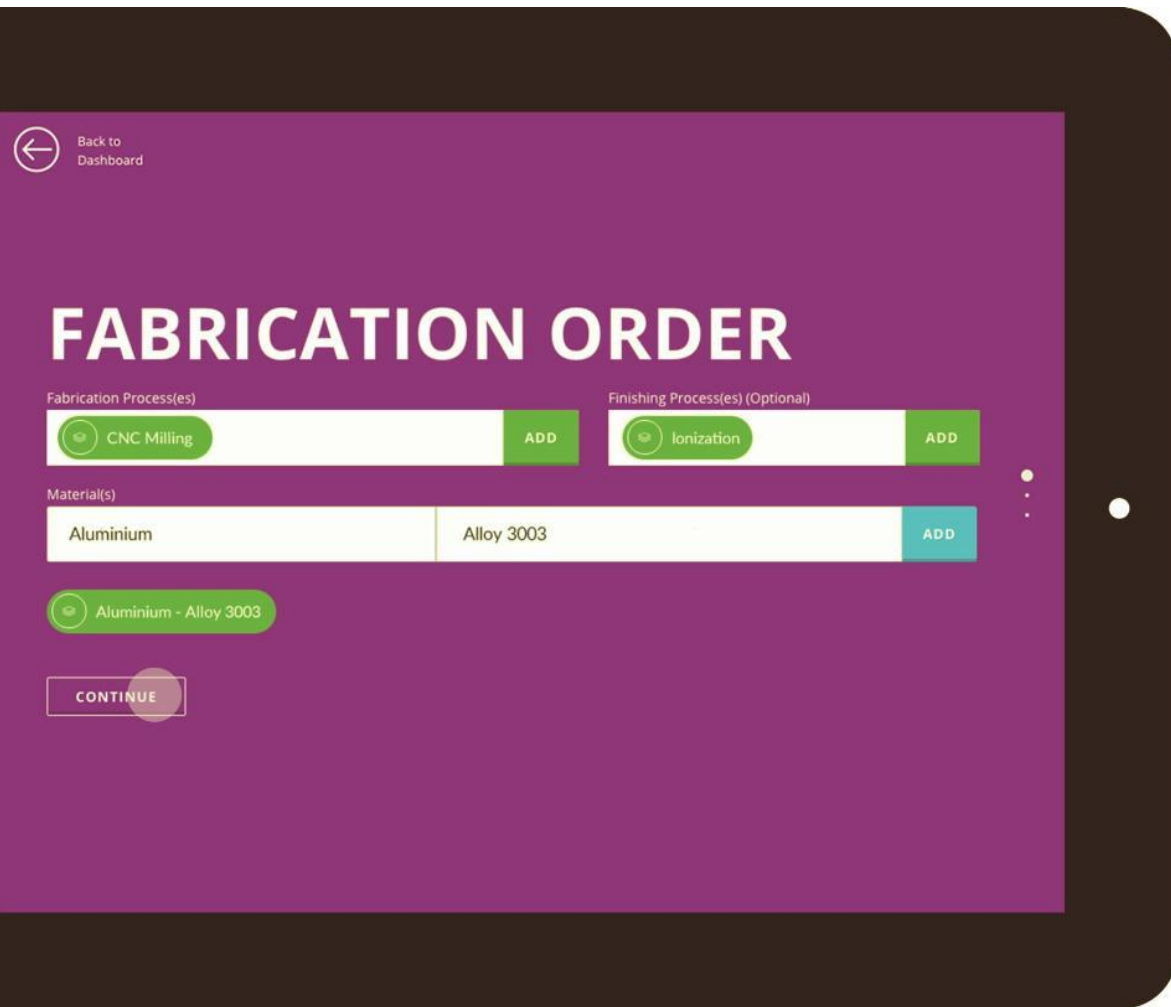
VIEW SPECS



STEP 2: Regional B2B Demand Engine

Drive New Demand

1. Regional Business Development collaboration with Chamber of Commerce & Office of Economic and Community Development
1. Highlight San Leandro ADV MFG Capabilities
1. Forge New Industry Partnerships & Alliances



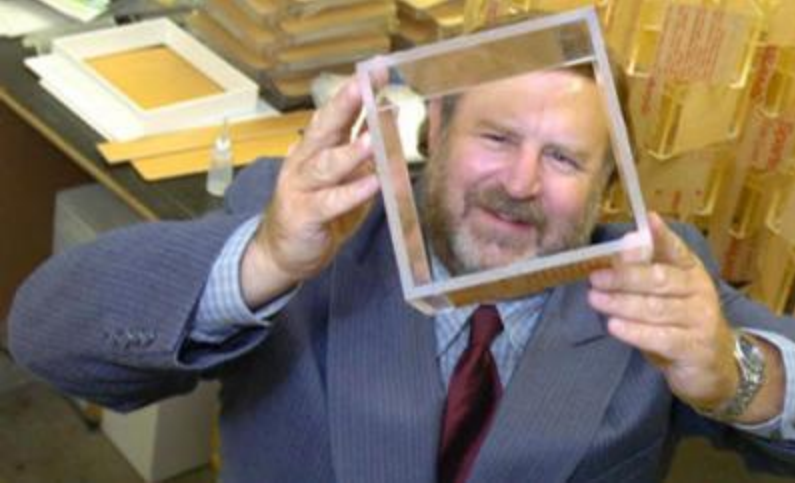
Easily Submit Orders



To the Factory Floor

Mr.Plastics Case Study

- 1) Mr. Plastics is an early adoption candidate for SyncFab, but why?
- 1) The community knows Mr.Plastics as a Plastics Supplier, but do they know them as a Machine Shop with Advanced Manufacturing Processes?
- 1) SyncFab has been working with Mike to survey his new Machining Capabilities to bring him new Biz!



STEP 3: Powerful New Data Source

Better Inform Initiatives

- Available San Leandro Supply Chain Capacity (Machinery)
- Number of Available Manufacturing Hours Used
- Top Industry Activities in San Leandro
- And More...Energy Usage Monitoring as part of D.O.E. CESMII and ISO 50001

PERCENTAGE OF BUSINESS COMING TO **SAN LEANDRO, CA** MANUFACTURERS



34% - from San Leandro

27% - from San Francisco, CA

23% - from Berkeley, CA

16% - Other Cities

TOP INDUSTRY ACTIVITY IN **SAN LEANDRO, CA**

- Aerospace
- Medical
- Electric Vehicle
- Robotics

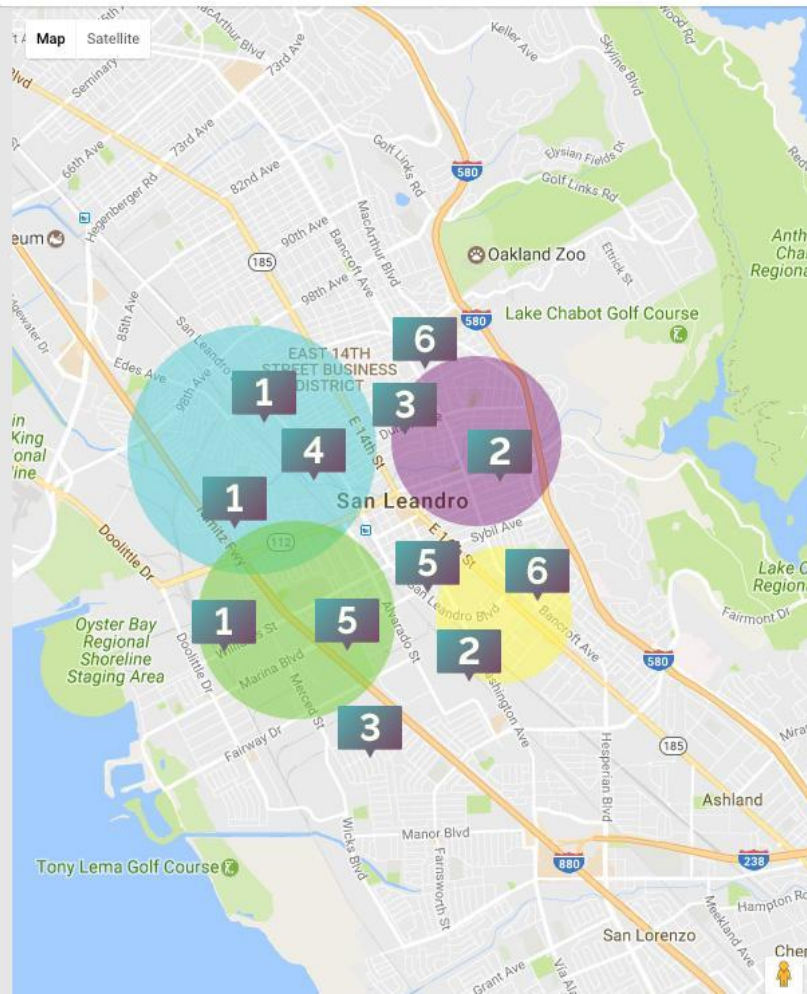
39 SUPPLY CHAIN PROCESSES IN **SAN LEANDRO, CA**

15 CNC Mill Turns - **8** CNC 5 Axis Machines - **6** CNC Lathes - **5** CNC Plasma Cutters - **6** Other

426 AVAILABLE HOURS OF MANUFACTURING TIME IN **SAN LEANDRO, CA**

236 USED HOURS OF MANUFACTURING TIME IN **SAN LEANDRO, CA**

[LOAD MORE SUPPLY CHAIN DATA FOR SAN LEANDRO](#)

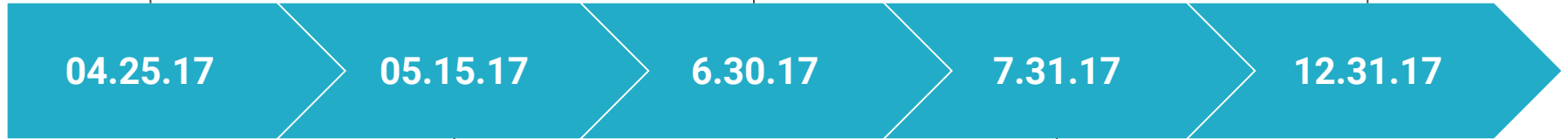


3 Step Service Road Map

**San Leandro by Design
Supply Chain Conference**

**STEP 1: Advanced
MFG Supply Chain
Mapping**

**STEP 3: Data Visualization
Pilot for Policy Analysis**



City Council Presentation

**STEP 2: Supply Chain
Promotion & Data Creation**



What San Leandro City Gets:

1. BOOST San Leandro Manufacturer Sentiment
2. Dynamic Map of San Leandro's evolving Advanced MFG Supply Chain Capacity and Capabilities
3. Marketing Team for San Leandro's New Smart Supply Chain (New Business for San Leandro MFG)
4. Unique Supply Chain Data Visualization Tool for Policy
5. Bragging Rights for the FIRST Smart Supply Chain bringing REAL IMPACT to Public-Private Partnership



Koffler Electric
Factory Tour
7/26/16

SyncFab and
the Chamber
Entrepreneur
Business Forum