

Livable City Year

Regarding Industry in the Port

About the Livable City Year

“The University of Washington’s Livable City Year program (LCY) is an initiative enabling local governments to tap into the talents and energy of the UW in order to accomplish critical projects.”

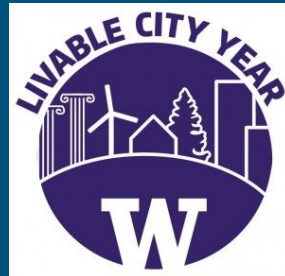
A year-long partnership

Areas of focus: environmental sustainability, economic viability, population health, and social equity, inclusion and access.

2018 UW and The City of Tacoma are partnering

37 currently proposed by the City of Tacoma

Port of Tacoma





Industrial Symbiosis



By Lindsey Baldwin

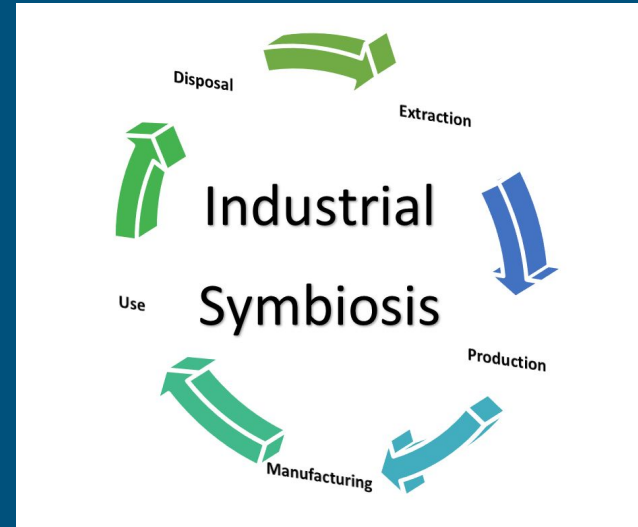


Definition

“A mutually beneficial relationship between industries that achieves productive use of waste and byproducts - promotes sustainable development by providing economic benefits while minimizing environmental degradation caused by the participating industries”

(Chopra & Khanna)

- Physical exchange of materials, water, energy, and byproducts
- Reusing and recycling products



Kalundborg

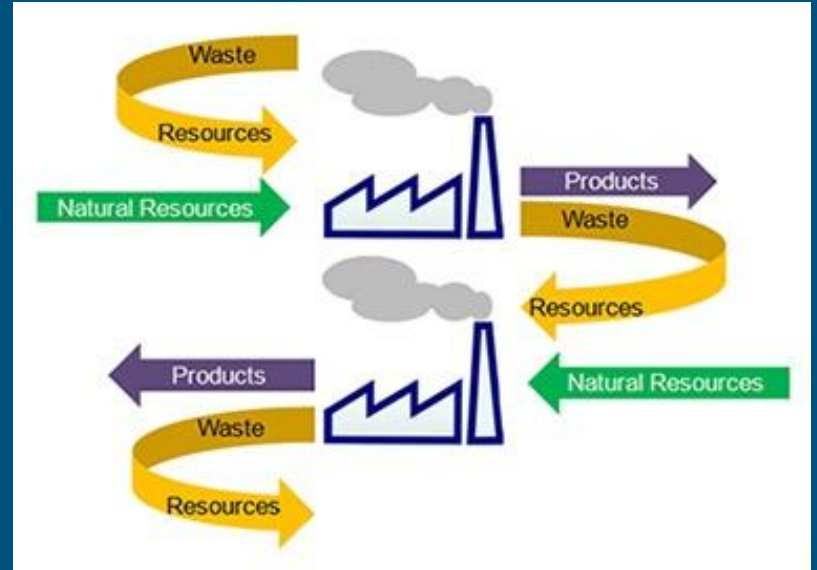
Known as THE model for industrial symbiosis.

- Organically-evolving, self-sustaining environmental collaboration
- Network of private and public firms



Benefits

- * “Win-win”
- * Competitive advantages
- * Optimized material cycles and energy flows
- * Social, environmental, economic benefits
- * Employment, reduced industrial emissions
- * Both enterprises benefit: receiver gets cheaper input materials; provider minimizes waste disposal problems.



Drawbacks and Concerns

Trust among nodes

- Synergies sometimes result from social interactions between managers and owners of industries

Lack of motivation/time

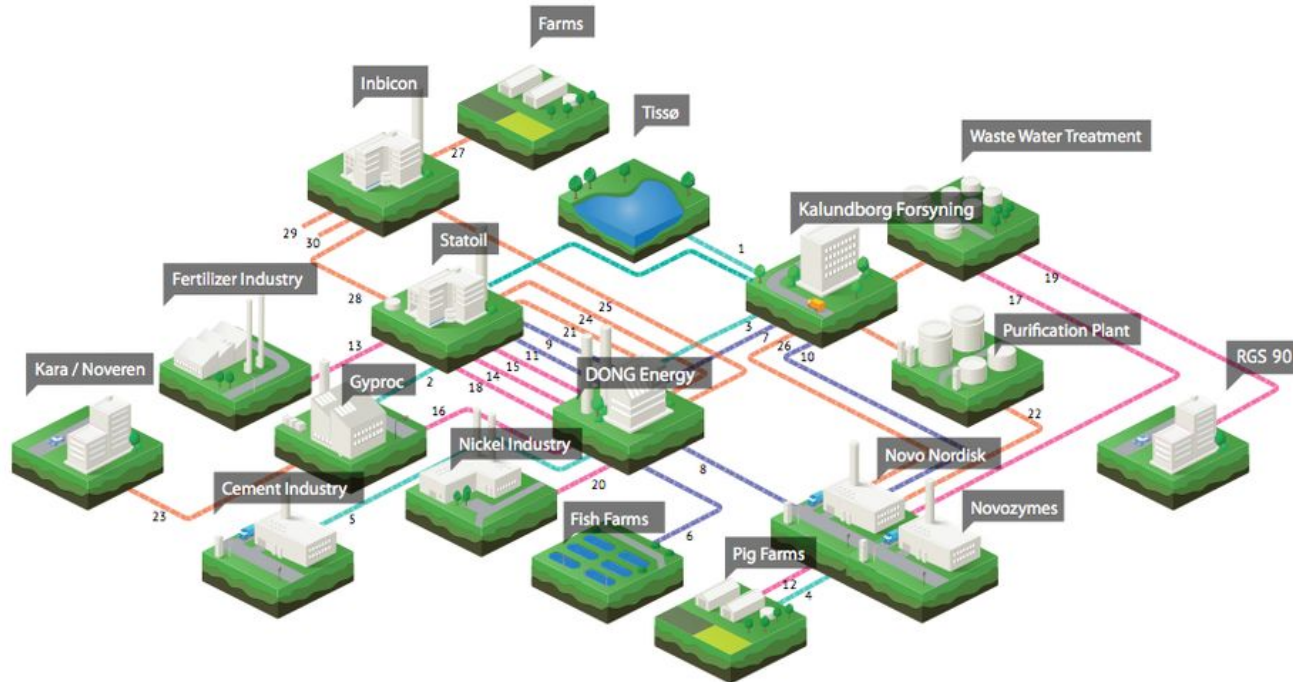
- Lack of motivation/time to search for new opportunities of mutual benefit

Vulnerability

- High vulnerabilities = low resilience
- Disruption may lead to domino effect

Kalundborg

— 2000-2010 —



Solutions to Drawbacks

Trust among nodes

- Workshops
- Collaborative benefits
- Good neighbor agreements

Lack of motivation/time

- Workshops
- Incentives

Vulnerability

- Increase redundancy and resilience
- Identify anchors

Can this work in Tacoma?

Your thoughts?

What would need to happen?

Before it can:

- Need to talk to existing businesses to see if they are interested
- Create incentives that are “worth it” to the businesses
- Need to inventory the inputs and outputs of businesses interested
- Address drawbacks (create trust, motivation, and decrease vulnerability)
- Good neighbor agreements



Good Neighbor Agreements

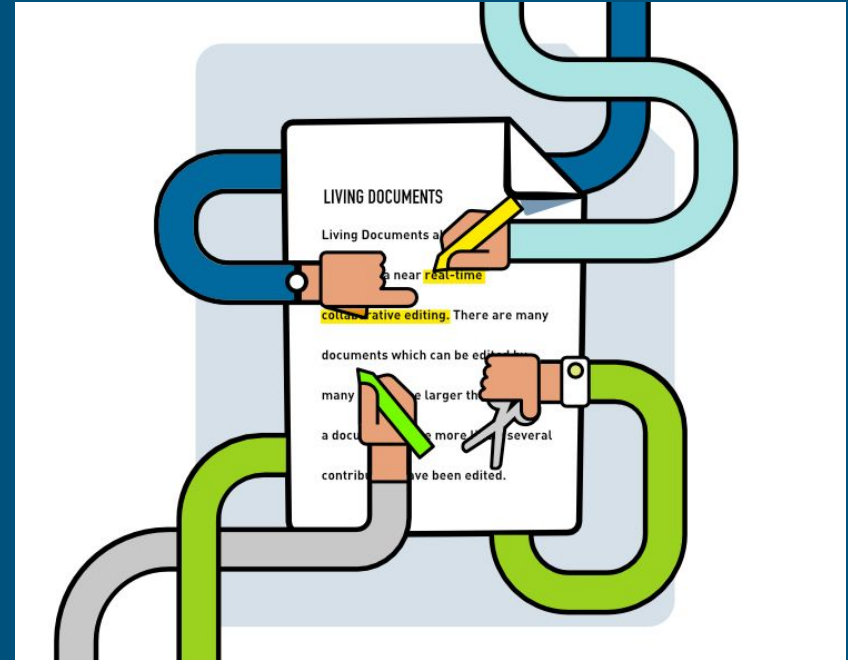


By Amy Boucher



What is a “Good Neighbor Agreement”(GNA)

- Are a contractual relationship.
- Bring community organizations and corporations together to formalize roles within a locality, and foster sustainable development.
- Issues addressed in GNA: human health, environment, labor, capital, and use of local materials/resources, and disposal of waste.



Where Do They Come From & What Are Their Drawbacks

Most Agreements are initiated when company repeatedly ignores community concerns and the company needs a new permit or it violates an existing permit, which provide an opportunity for community groups, to tactically pressure company and push for GNA.

The resulting GNA outlines a plan for addressing community concerns, often employing creative remedies not usually available through regulatory or litigation mechanisms. The breadth and strength of the resulting GNA is closely correlated to the amount of leverage held by the community group at the time of negotiation.

Drawbacks:

- Can seem like another bureaucratic hoop to have to jump through, when modification need to be made (GNA-renegotiation)
- Heavily relies on the volunteer efforts and commitment of local citizens to stay active with the GNA.
- Company must see it more profitable to cease the offending behavior than to continue and face community opposition.

GNA Can Also Be Powerful Tools



File photo. Oregon and Washington have both signed 'Good Neighbor Agreements' with the U.S. Forest Service in hopes of improving management of public lands susceptible to wildfire.

INCIWEB

The Washington Good Neighbor Master Agreement - “brings federal and state partners together with communities more effectively”, to restore and enhance the forest on a landscape level, rather than within jurisdictional or regulatory limitations. (U.S.F.S. Regional Forester Jim Peña)

Oregon Good Neighbor Authority Master Agreement -brings social, economic, and environmental issues tied to public lands far beyond their boundaries and bring issues together and promotes collaboration. “We can get farther by working together than apart.” (Oregon Governor Kate Brown)

Examples of Similar Agreements



- Community Benefit Agreement (CBA)
- New Social Contracts (NSC)
- Impact and Benefit Agreements (IBA) - commonly used in indigenous and aboriginal communities
- Best Work Practices Agreement (BWPA)

All of these agreements strive to build relationship between the community and the industry ensuring community concerns and needs are not being ignored and industry needs and wants are transparently brought to the table

GNA's In Practice

Kingsbridge Armory CBA in New York City

Ice Sports Center Project,
developer agreed to:

- Addressed community labor issues, and local hiring.
- Local contracting utilization.
- Green building and community consultation on environmental issues.
- Grant funds for local business and community needs projects

Stillwater Mining Company in Montana

Through transparency, trust,
communication, and shared
responsibility:

- Established environmental safeguards.
- Solidified for long term.
- Framework built to Management and encourage community support.
- Built in conflict resolutions tools.



“Agreements come and agreements go.” The proof is whether they last.”
Bruce Gilbert, director of environmental and governmental affairs at Stillwater.



Urban Industry and Sustainability



Can They Be Good
Neighbors?



Conflict between Industry and environment in the Port of Tacoma

How do we reconcile
contentions?

- ❖ Address unsustainable traditional indicators such as growth is good and 'N'ature is apart from (economic and environmental)
 - ❖ Consider Industrial Symbiotic relationships. (Example: Kalundborg)
 - ❖ Stop the "Green Washing" Facts on the Table.
-

What does a progressive port look like that put **economy, environment, and people** at the decision making table?

What could this look like in Tacoma?

- ★ GNA's
- ★ Community Action Roadmap - (EPA)
- ★ Control System for Sustainability (CSS)

RE-THINK SUSTAINABLE

PORT DEVELOPMENT

Legend

General

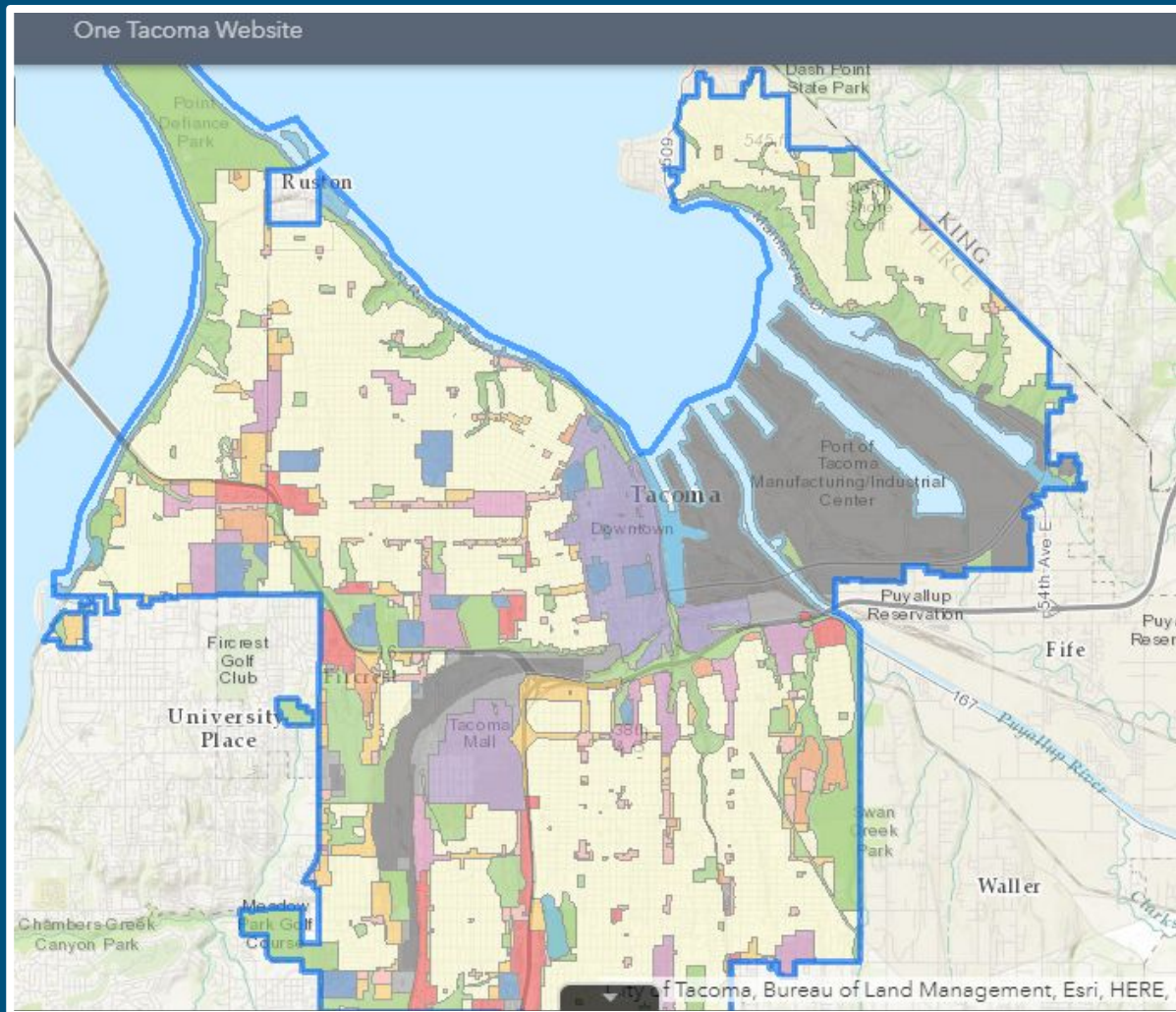
Tacoma City Boundary



Future Land Use

Land Use Designations

- Single Family Residential
- Multi-Family (Low Density)
- Multi-Family (High Density)
- Neighborhood Commercial
- General Commercial
- Downtown Regional Growth
- Tacoma Mall Regional Growth
- Crossroads Mixed-Use Center
- Neighborhood Mixed-Use Center
- Light Industrial
- Heavy Industrial
- Parks and Open Space
- Major Institutional Campus
- Shoreline



References

- Lewis, S., & Henkels, D. (1996). Good neighbor agreements: A tool for environmental and social justice. *Social Justice*, 23(4), 134-151.
- Oregon Governor, State Officials Sign Good Neighbor Agreement with Forest Service. (2016, March 29). Retrieved December 03, 2017, from <https://www.fs.usda.gov/detail/r6/news-events/?cid=FSEPRD496285>
- Schwing, E. (n.d.). Similar Deals, Identical Statements: Washington, Oregon Sign Good Neighbor Agreements With Feds. Retrieved December 03, 2017, from <http://kuow.org/post/similar-deals-identical-statements-washington-oregon-sign-good-neighbor-agreements-feds>
- Portland Neighborhood Advisory Committee [Meeting Minutes Neighborhood Advisory Committee]. (2017, July 11).

References

- LINDA HALSTEAD-ACHARYA Of The Gazette Staff. (2010, May 26). From conflict to cooperation: Stillwater accord endures. Retrieved December 03, 2017, from http://billingsgazette.com/news/state-and-regional/montana/from-conflict-to-cooperation-stillwater-accord-endures/article_1c761e60-687d-11df-920e-001cc4c002e0.html
- Good Neighbor Agreement - Stillwater Mine - Citizen Oversight - MT. (n.d.). Retrieved December 03, 2017, from <https://www.northernplains.org/issues/good-neighbor-agreement/>
- Kenny, D. Stohs, M., Chavez, J., Fitzgerald, A, Erickson, T., (2004). Evaluating the Use of Good Neighbor Agreements for Environmental and Community Protection: Final Report. University of Colorado Law School Colorado Law Scholarly Commons Books, Reports, and Studies Getches-Wilkinson Center for Natural Resources, Energy, and the Environment, 1-144. Retrieved November 27, 2017, from http://scholar.law.colorado.edu/cgi/viewcontent.cgi?article=1018&context=books_reports_studies

References

- Satyro W.C., Sacomano J.B., Contador J.C., Almeida C.M.V.B., Giannetti B.F.
Process of strategy formulation for sustainable environmental development: Basic model
Journal of Cleaner Production, Volume 166, 2017
- Insights, I. G. (2017, October 24). Heavy Duty Trucks Market worth over \$160bn by 2024: Global Market Insights, Inc. Retrieved December 04, 2017, from <https://globenewswire.com/news-release/2017/10/24/1152164/0/en/Heavy-Duty-Trucks-Market-worth-over-160bn-by-2024-Global-Market-Insights-Inc.html>

References

- About Livable City Year. (n.d.) Retrieved November 28, 2017 from <https://www.washington.edu/livable-city-year/about/>
- UW and City of Tacoma's Livable City Year Partnership Kicks off Oct. 5. (n.d.). Retrieved November 28, 2017 from <http://www.cityoftacoma.org/cms/One.aspx?portalId=169&pageId=137328>
- 2018-2019 Municipal Partner Request for Proposal. (n.d.). Retrieved November 28, 2017 from <http://www.washington.edu/livable-city-year/2017/11/14/2018-2019-municipal-partner-request-for-proposals/>
- Branson, R. (2016). Re-constructing Kalundborg: The reality of bilateral symbiosis and other insights. Journal of Cleaner Production, 112, 4344-4352.

References

- Chopra, S., & Khanna, V. (2014). Understanding resilience in industrial symbiosis networks: Insights from network analysis. *Journal of Environmental Management*, 141, 86.
- Martin, Svensson, & Eklund. (2015). Who gets the benefits? An approach for assessing the environmental performance of industrial symbiosis. *Journal of Cleaner Production*, 98, 263-271.
- Valentine, S. (2016). Kalundborg Symbiosis: Fostering progressive innovation in environmental networks. *Journal of Cleaner Production*, 118, 65-77.
- Zhang, Zheng, & Fath. (2015). Ecological network analysis of an industrial symbiosis system: A case study of the Shandong Lubei eco-industrial park. *Ecological Modelling*, 306, 174-184.