

Elise Molleur

Brownfield Redevelopment Specialist

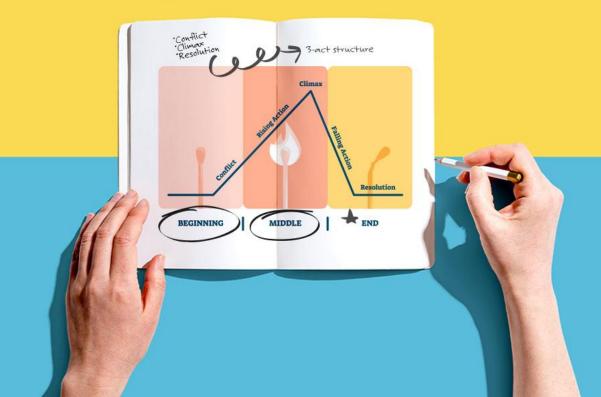






Thursday, March 21, 2024 1:00pm - 2:00pm EST

Made possible with funding from the US EPA





Thank you for joining us today! This webinar will be starting soon.

But first, some helpful information:

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Today's session will be recorded.

The recording for this session will be available on our website: https://www.njit.edu/tab/





Thank you for joining us today! This webinar will be starting soon.

But first, some helpful information:



We want to know your thoughts! Fill out our feedback survey after today's session.

Continue the conversation on our LinkedIn page! https://bit.ly/3UYkHPR



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Thank you for joining us today!

This webinar will be starting soon.

But first, some helpful information:



Experiencing technical issues? Know someone who is having trouble hopping on?

Reach out to me via email at fm392@njit.edu



Today's Speakers:



Elise Molleur

Brownfield Redevelopment Specialist, NJIT TAB

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Maria Coler Adjunct Professor, NJIT ENE662852 – Site Remediation, Spring 2024 President, Hydrotechnology Consultants, Inc.(HCI)

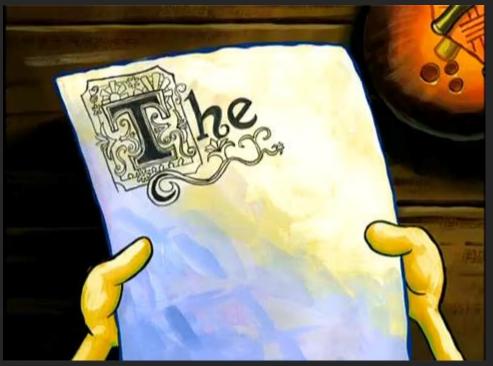
Email: <u>mcoler@digbrowngogreen.com</u> Phone: 201-222-1540



Agenda

- Our history path dependency and deep history
- Stories what makes us listen?
- Traditional Three-Act Narrative Structure vs. Five-Point
 Indigenous Storytelling
- What is a Brownfield and why talk about them?
- Amplifying underrepresented voices
- Brownfield champions
- The audience members of Brownfield storytelling
- Grantwriting
- Data and emotion
- A real Brownfield story

Main Takeaway: Storytelling is critical to gaining financial resources, partnerships, and community support for your Brownfield project.





-Joanne Rogers, wife of Fred Rogers, in a 2003 interview with "The Atlanta Journal-Constitution"

THE R. P. LEWIS CO., Name









The Deep History and Path Dependency of Brownfield Sites

Tools of the Trade

DEEP HISTORY illuminates forces that brought about changes to the environment, environmental consciousness, and environmental activism.

PATH DEPENDENCY is the notion that established pathways determine future developments.

FEBRUARY 23, 1945 IN IWO JIMA, JAPAN



THE GREATEST GENERATION

U.S. MARINES-IWO JIMA, JAPAN, 1945



A SHARED PURPOSE

WOMEN'S LAND ARMY, GREAT BRITAIN



A VISION

NORMANDY BEACH, FRANCE



A DESIRE

UNITED NATIONS



VICTORY!

TIMES SQUARE, NYC

CLIMATE CHANGE ECOSYSTEM COLLAPSE ENVIRONMENTAL DEGRADATION

GATHERING STORM OF CRISES

BROWNFIELDS



MORE THAN 1,000,000 SITES

REPOSITORIES OF MEMORY

FRENETIC PRODUCTIVITY



THE DNA OF THE NATION

ARCHITECTURAL BONES



THE WORLD IS A BROWNFIELD

- RECLAMATION
- REGENERATION
- RESILIENCY
- PRESERVATION
- SUSTAINABILITY



EVOLUTION IN CAPITALISM

PRESIDENT JOHN F. KENNEDY

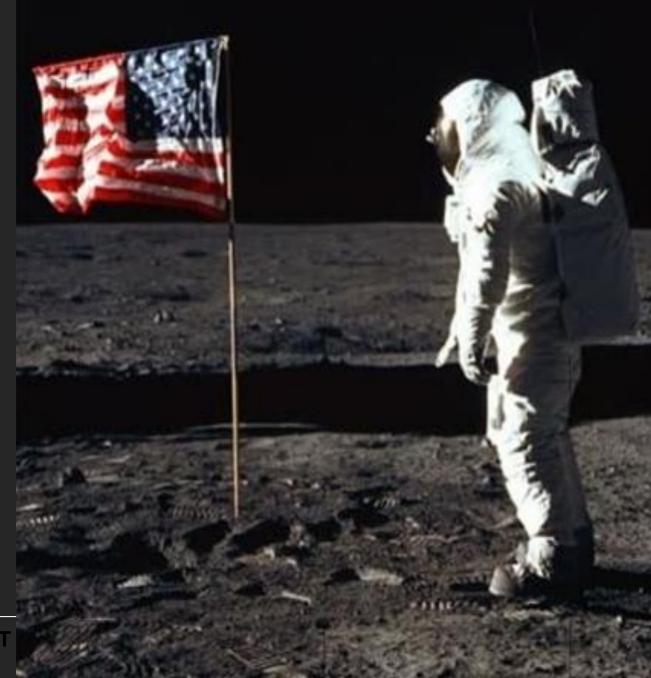
WWII PURPLE HEART MEDAL RECIPIENT

OF THE

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THE MOONSHOT CHALLENGE

ONE WE ARE WILLING TO ACCEPT

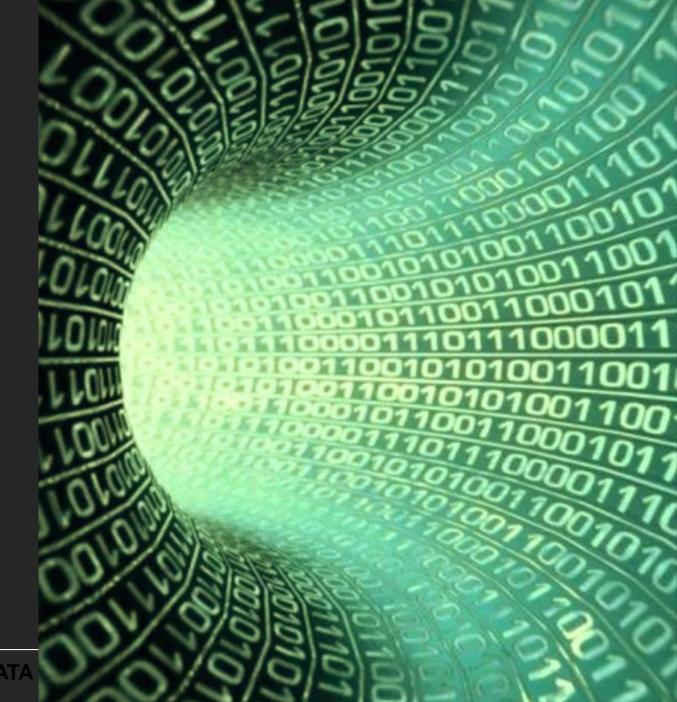


GREENEST GENERATION(S)

CHALLENGED TO RISE



LIKE. NOTHING. WE'VE. SEEN. BEFORE.



DELVE DEEP INTO THE DATA

SMART, CONSCIOUS GOVERNMENT AND CAPITAL



TRIPLE-BOTTOM-LINE THINKING



BUILDING A BETTER AMERICA

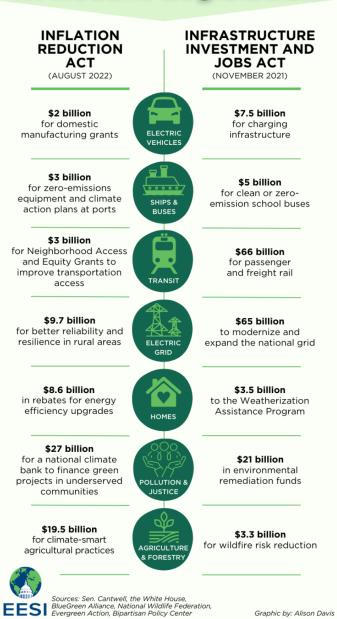
≡BUILD.GOV =====

Bipartisan Infrastructure Law

A GUIDEBOOK TO THE BIPARTISAN INFRASTRUCTURE LAW FOR STATE, LOCAL, TRIBAL, AND TERRITORIAL GOVERNMENTS, AND OTHER PARTNERS Once-in-a-Generation Investment in National Infrastructure

\$21 Billion in Brownfield Remediation Environmental Justice

Complementary Climate Investments in Recent Legislation



Inflation Reduction Act

Largest Investment in Climate Change Mitigation and Climate Resiliency in the History of the World

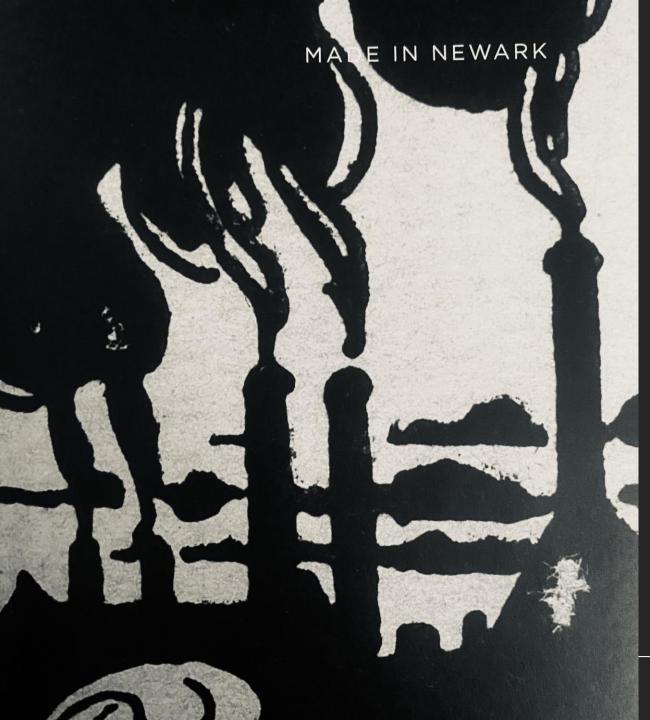
\$27 Billion for Green Energy Projects in Underserved Communities



So, how will you tell the story of your town/city and your site in the Golden Age of Brownfields?

Let me tell you a story about one of my favorite places.

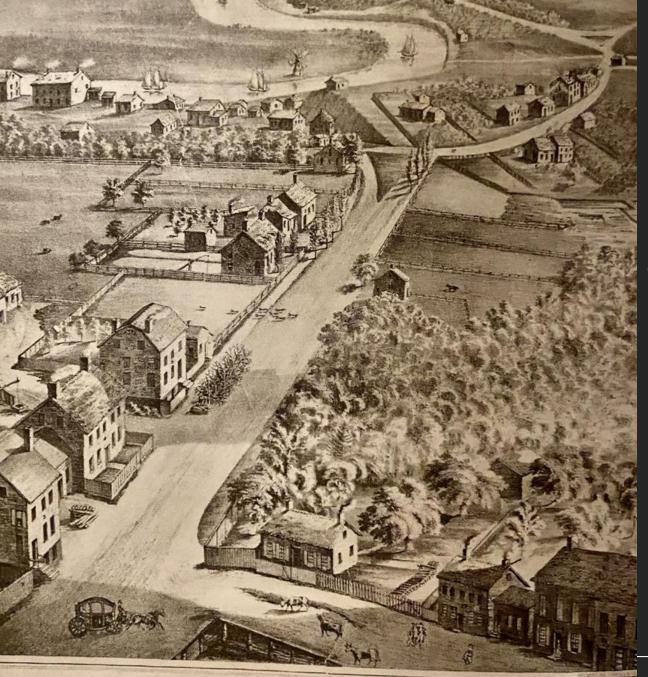
City of Newark



Deep History

"The story of Newark is America's story. It is the story of colonization, independence, growth and maturity. It is the story of a brave people."

~Lyndon B. Johnson, during a 1966 speech commemorating Newark's 300th anniversary, said the following:



WARK IS

Path Dependency

In the late 1700s, construction of bridges spanning the Passaic and Hudson Rivers

Major rail and waterway infrastructure projects of the pre-Civil War era left lasting marks all over increasingly urban northern New Jersey.

Newark became the hub of northern NJ



Many Great Inventors and Industrialists Set Up Shop in Newark

Thomas Edison Seth Boyden Moses Combs & Franklin Murphy

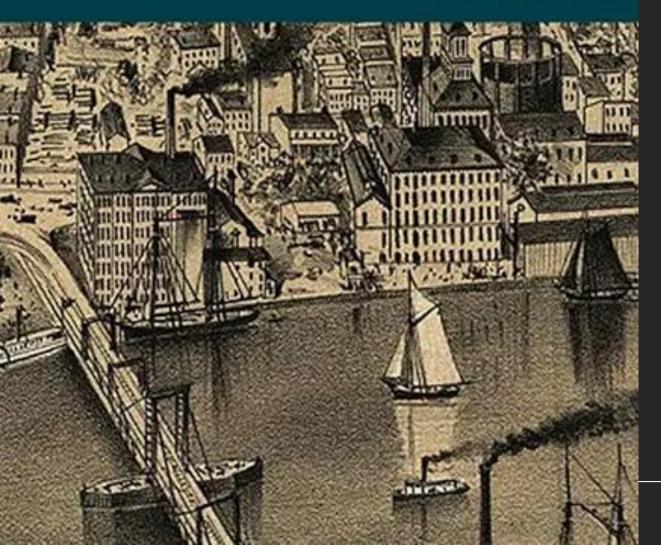
Seth Boyden







How Newark Became Newark The Rise, Fall and Rebirth of an American City BRAD R. TUTTLE



Newark is Everycity, U.S.A.

Only with a steeper rise, sharper turns, and a much more dramatic plunge.

Urban America in Extremis Industrial Abandonment Racial Conflict Fiscal Insolvency Dire Poverty



Deep History

Newark's fate is inextricably bound to **the way we choose to tell its story.**

As America Rises to the Challenges of the 21st Century It Will Once Again Look to Cities Like Newark

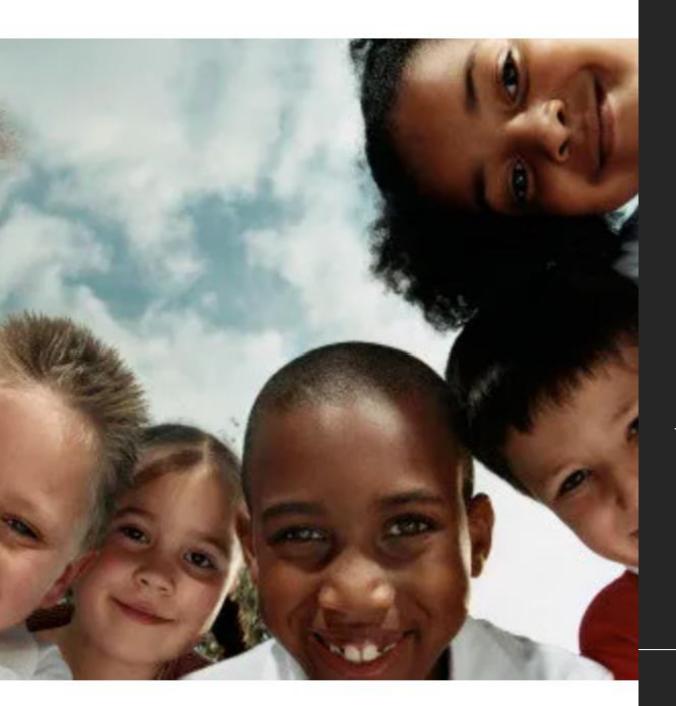
The Cycle of American Greatness and Weakness Found It's Full Expression in Places Like Newark



Why This Brownfield in This City?

Newark and America's second precipitous rise is dependent, in part, on the symbols of their decline—**brownfields**

Redeveloped Murphy Varnish Building



With Imagination and Storytelling– And Employing Brownfields as the Building Blocks of a Sustainable Future– We Can Build a Better World Informed by Triple-Bottom-Line Thinking for Them!

Thank You!



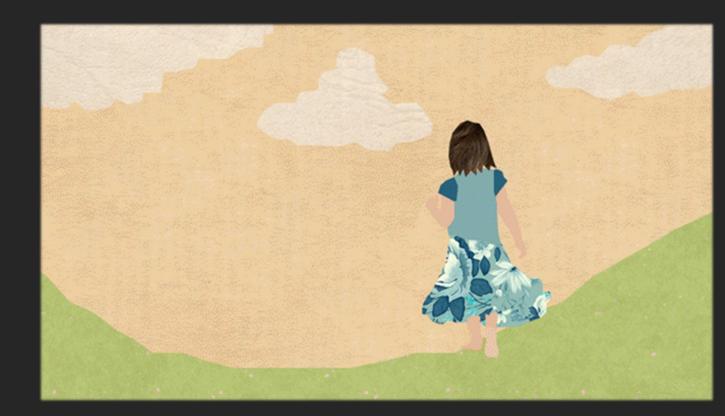


Maria Coler, CEO and Founder HYDROTECHNOLOGY CONSULTANTS, INC. mcoler@digbrowngogreen.com

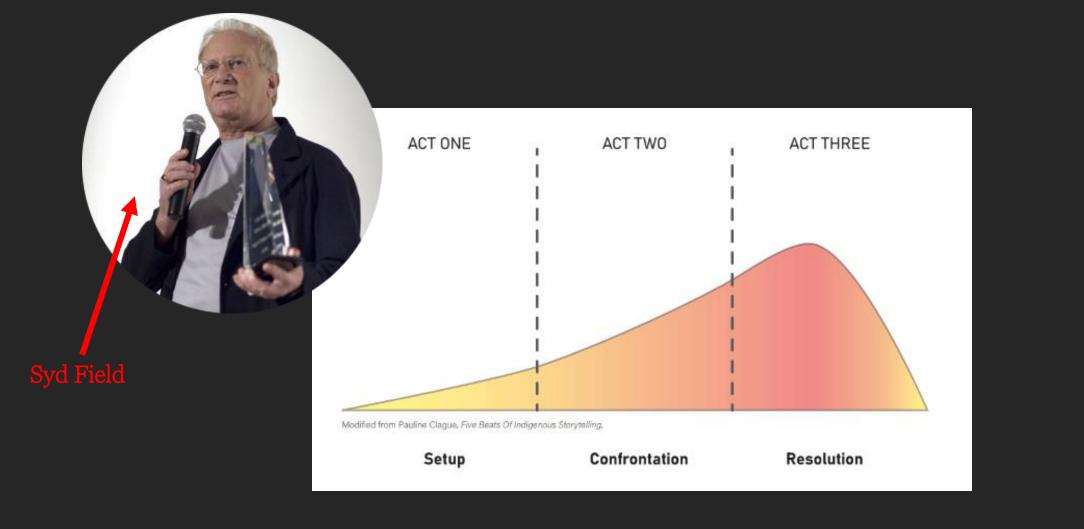
Adjunct Professor, NJIT

What makes a good story?

- Know your audience
- Emotion love the stories you tell
- Share *your* story make it relatable and/or personal
- Characters



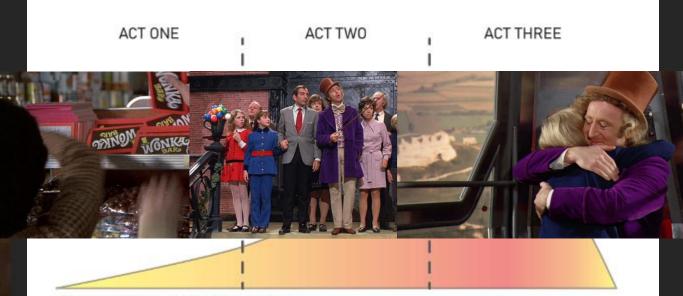




Storytelling: Traditional Three-Act Narrative Structure



Storytelling: *Willy Wonka & the Chocolate Factory* Three-Act Narrative Structure



Modified from Pauline Clague, Five Beats Of Indigenous Storytelling.

Setup

Introduction

factory tour and a lifetime supply of chocolate.

Confrontation

Resolution

Warner Bros. Entertainment

Rising Action

Charlie lives in poverty with his family. Grandpa Joe explained to Charlie that the gates of the Wonka Factory remain locked to prevent further sabotage from spies who were sent to steal Willy Wonka's recipes. Wonka announces that five Golden Tickets were hidden in chocolate Wonka Bars: the finders of the tickets will receive a

<u>Crisis</u>

Each child's character flaws cause them to give in to temptation, resulting in their unusual "elimination."

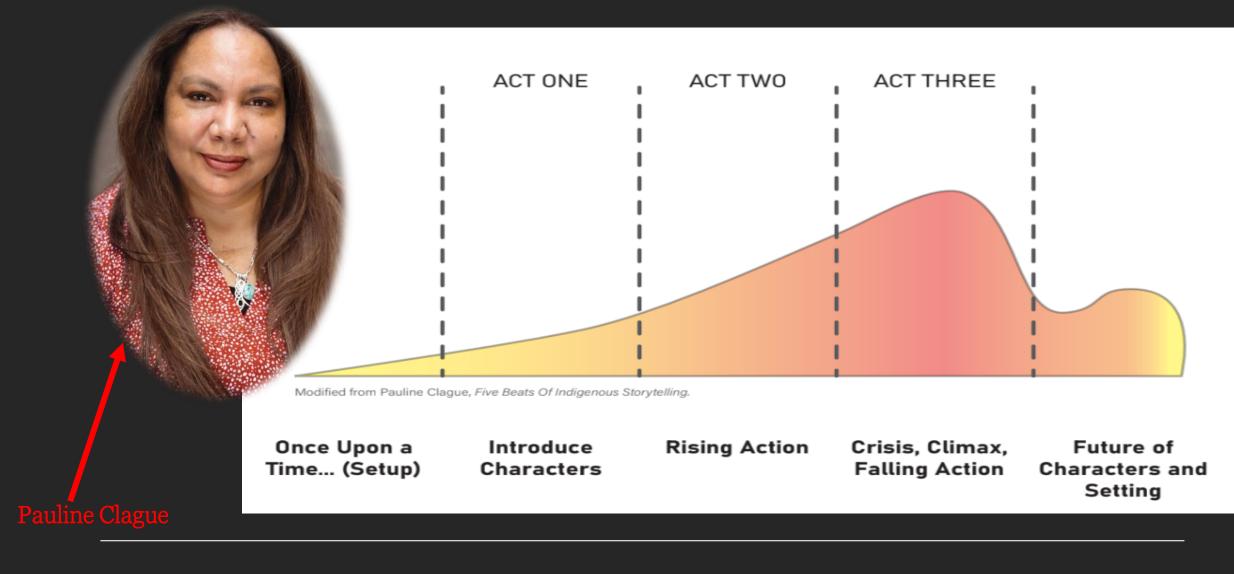
Falling Action

Following the downfall of the other children, Wonka announces that Charlie has passed the morality test and gifts his factory to Charlie and his family upon Wonka's retirement.



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T E C H N I C A L ASSISTANCE TO B R O W N F I E L D



Storytelling: Five-Beat Indigenous Storytelling



Storytelling: *Willy Wonka & the Chocolate Factory* Three-Act Narrative Structure



What is a Brownfield?

"Real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant."

-EPA

Brownfield Champion – An entity or individual whose Brownfield site has been successfully redeveloped.

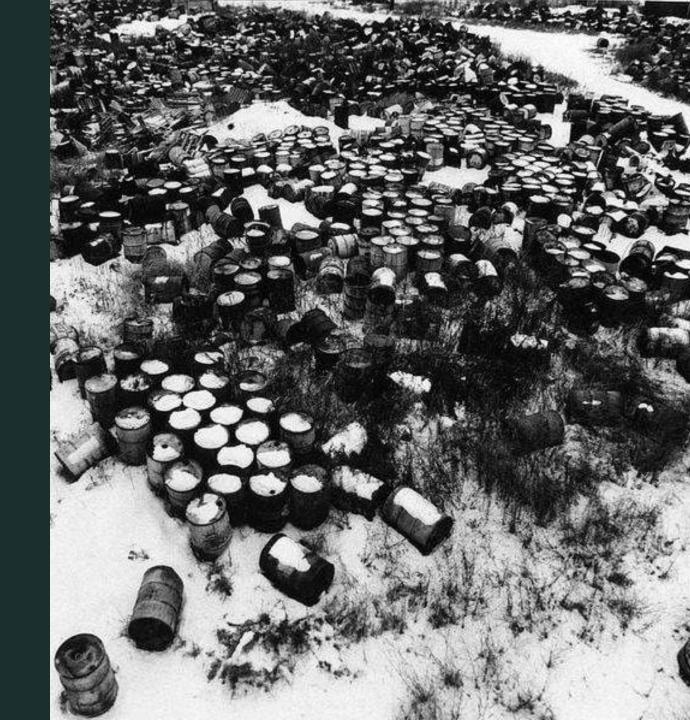
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Superfunds vs. Brownfields

Superfunds goals are to:

- Protect human health and the environment by cleaning up contaminated sites
- Make responsible parties pay for cleanup work
- Involve communities in the Superfund process
- Return Superfund sites to productive use



Why do we tell stories of Brownfield sites?

- Articulate ideas
- Gather input
- Appeal to audiences
- Catalyze community involvement
- Gain funding, partnerships, and grantors (necessary step in grant writing)
- Support underrepresented voices

Brownfields Success Story

Bringing Clean Energy to an Abandoned Waterfront Woodbridge, New Jersey

El Paso Energy Corporation (EPEC) Polymers, Inc. owns a 185-acre parcel of land along the Raritan River in Woodbridge Township, New Jersey, that has a history of industrial activity. In the late 1800s, clay mining on the property supported the region's brickmaking industry, and organic chemical manufacturers operated a plant there until the mid-1980s. Since then, state and federal environmental investigations have confirmed contamination of the groundwater beneath the plant with volatile organic compounds, including vinyl chloride, trichloroethylene, and methylene chloride.

A portion of the property also was contaminated by materials the U.S. Army Corps of Engineers dredged from the Raritan River in the 1940s and 1950s. Tidal marsh areas were bermed and isolated hydraulically from the river to allow for placement of the dredged material and to install a municipal sewer main along the riverfront. Berming and filling the tidal marshes destroyed the natural habitat and created a large monoculture of Phragmites, a rapidly growing reed that chokes waterways and displaces native wildlife.

After the EPEC Polymers plant closed in 1986, the property remained vacant and contaminated for decades, making it particularly unappealing to developers concerned with remediation costs. In 2009, the New Jersey Department of Environmental Protection (NJDEP) partnered with Woodbridge Township to help return the property to productive use. With support from public and private investment, the site soon will house the Woodbridge Energy Center and the Woodbridge Waterfront Park. Though remediation and redevelopment have taken a tremendous amount of work, project officials say the promise of new jobs, clean energy, green space, and public access to the riverfront has made all the effort worthwhile.



An aerial shot of the Heyden Newport Chemical Corp. manufacturing plant in Woodbridge Township, New Jersey, in 1957. Investigators later confirmed groundwater contamination at the site.



An artist's rendering of the Woodbridge Energy Center, planned as part of a major effort to return a previously vacant and contaminated property along the Raritan River to productive use.

EPA Grant Recipient: New Jersey Department of Environmental Protection

Grant Types: EPA CERCLA 128(a

Former Uses: EPEC Polymers, Inc., Chemical Manufacturing Plant

Current Uses: Woodbridge Energy Center, Woodbridge Waterfront Par



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TECHNICAL ASSISTANCETO BROWNFIELD

Stories Matter: Amplifying Voices

• Boost the voice, not become the voice

• What can storytelling do for marginalized voices?

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- Increase visibility
- Improve self-esteem
- Increase social awareness
- Foster empathy

Ironbound – Newark, New Jersey

Dr. Ana I. Baptista

Ironbound Toxic Tour



Toxic Tour Stop
 Independence Park
 South Ironbound
 Port Newark
 PVSC
 Chemical Row
 Foot of Hawkins
 St. Charles St.
 Incinerator
 Passaic River
 Diamond Alkali
 Riverbank Park







Why is it important for "Brownfield champions" to tell their story?

Inspire others

Can be a catapult for your next Brownfield

Show the impact it has on a community

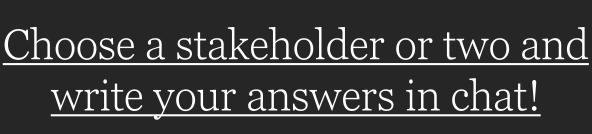


BROWNFIELD

KNOW YOUR AUDIENCE – UNDERSTAND THEIR MOTIVATION

Which factors (e.g. job creation, quality of life, property value) do you think the following stakeholders are most concerned with?

- 1. Elected Officials
- 2. Property Owners
- 3. Developers or Investors
- 4. Residents
- 5. Grantors







Elected Officials



Focused on ECONOMIC IMPACT

- Jobs
- Sales and property tax
- Blight removal
- Their general legacy



Property Owners

FAMILY LEGACY

- Property value
- Resale potential
- Lease rates
- Free money
- Clean bill of health
- Inheritance





Developers/Investors

A SENSE OF "FOMO"

Want to know about...

- Return on investment
- Neighborhood potential
- Land value
- Lease rates

CD

• Market demand



Residents



WANT SOMETHING TO LOVE

- Livability/safety
- Sense of place/community
- Neighborhood potential
- Elimination of blights
- Quality of life
- Amenities





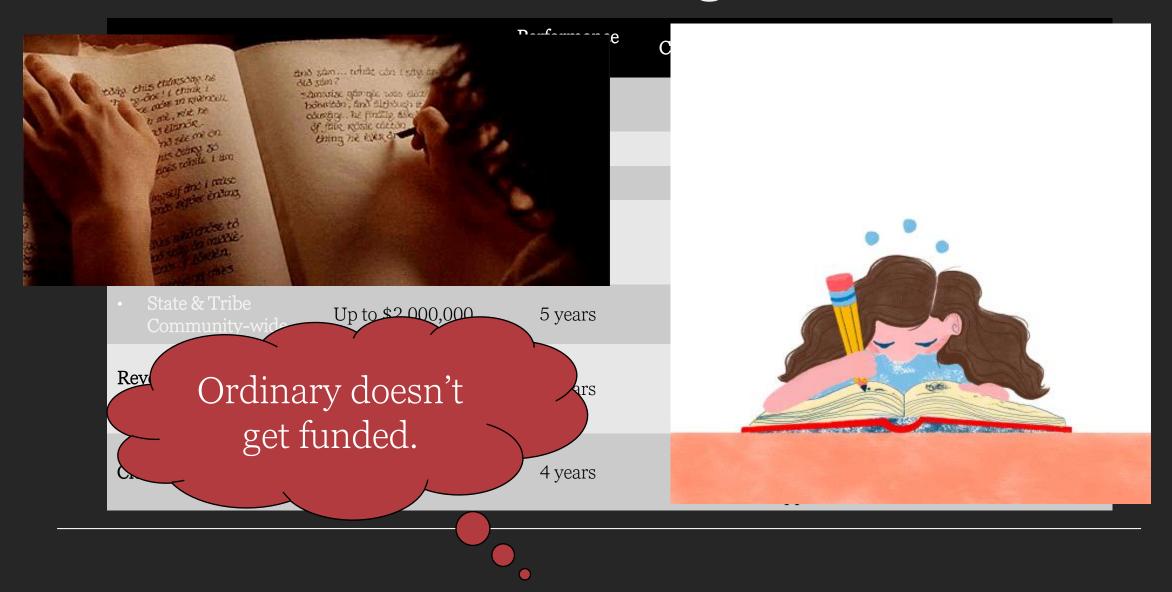
Grantors

WANT TO SEE MONEY WELL SPENT

- Results
- Shareable information
- Groundbreaking ceremonies
- Stories that show all of the above



Grantors and Grantwriting



Imagine a future...

Can you picture this Brownfield site following redevelopment? What does it look like? Are people there? What jobs were created with this new development?





Imagine a future...

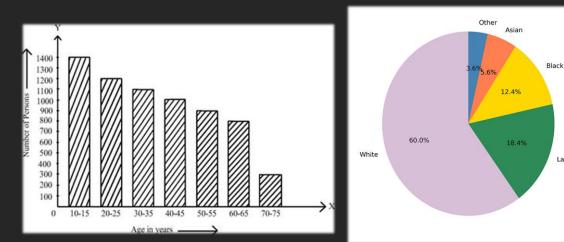




Data

What kind of data is collected during the redevelopment process?

- Community-Member Demographics
 - Average incomes
 - Race
 - Population
 - Average age
- Local Information
 - Amount of affordable housing
 - Amount of brownfield sites... and why?
 - Land acreage
 - Community goals and visions





Latino

How do we transform this?

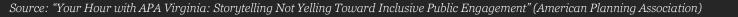
Emotion in Storytelling

Can improve public engagement and appeal to a more diverse audience

Can...

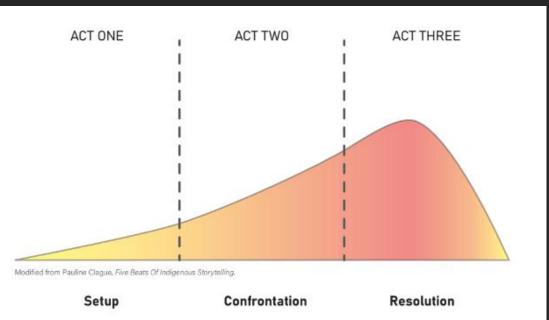
- engage underserved communities
- break down polarizing barriers
- realign planning projects for inclusive long-lasting changes

Has the **power** to synthesize different voices when identifying common hopes, aspirations, and visions of a place





Storytelling: Brownfields in the Three-Act Narrative Structure





The post-war industrial decline led to factory closures throughout Johnson City, New York. These abandoned structures stood as a reminder of hard times for 40 years.

NJIT

Rising Action The sister factories Century and Sunrise are sold to investors. The site is assessed and contamination is identified. The structure remains intact.

<u>Crisis</u> site is cleaned up ar

The site is cleaned up and the existing structure is repurposed.

Falling Action Century Sunrise Redevelopment opens in 2018, providing affordable housing within Johnson City.



Source: Google Maps (April 2012)







Storytelling: Brownfields in the Three-Act Narrative Structure

Before and After – from Factory Buildings to Affordable Housing



Source: Google Maps (April 2012)



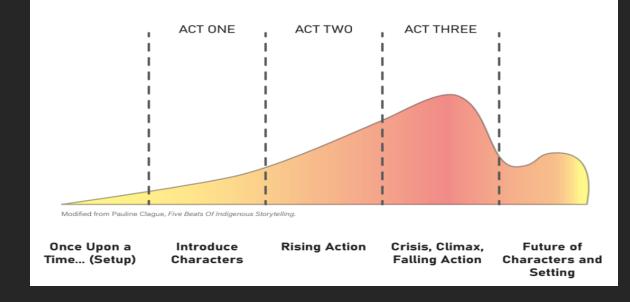
Source: Google Maps (October 2023)





Storytelling: Brownfields Beyond the Three-Act Narrative Structure (Before, After, and Beyond)







<u>Once Upon a Time...</u>

The Endicott-Johnson Corporation was a major cultural and economic force in the development of Johnson City. The company treated workers fairly and used their land to provide recreation space for the community.

Introduction

The post-wear industrial decline led to EJ factory closures throughout the city. These abandoned structures stood as a reminder of hard times for 40 years.

Rising Action

The sister factories Century and Sunrise are sold to investors. The site is assessed and contamination is identified. The structure remains intact.

<u>Crisis</u>

The site is cleaned up and the existing structure is repurposed.

<u>Falling Action</u> Century Sunrise Re-development opens in 2018, providing affordable housing within Johnson City.

Future of Characters

The redevelopment attracts new residents and furthers development within the city. Many former industrial sites have since been remediated and given new life, providing needs such as affordable housing and public recreation space.

Technical Assistance to Brownfield Communities

"EJ" = Endicott-Johnson Corporation



Takeaway

- Brownfields are vacant or underutilized sites with confirmed or potential contamination
- Tell stories to...
 - articulate our ideas and visions
 - appeal to different audience members
 - Support and amplify voices
 - catalyze community involvement
- Grantwriting tell the story of your site and the story of the people in your community
- Critical to gaining financial resources and partnerships





NEED HELP?

NJIT TAB serves as an independent resources to state, territory, regional, county, tribal, and local government entities, and non-profits attempting to learn about, identify, assess, cleanup, and redevelop brownfields.



N J I T T E C H N I C A L ASSISTANCE TO B R O W N F I E L D C O M M U N I T I E S



So, can we learn to love a site once we get to know it?



TAB Technical Assistance to Brownfield Communities

Thank you for your time!

Questions?



Center for Community Systems - https://research.njit.edu/communitysystems/

NJIT TAB Program - <u>https://www.njit.edu/tab/</u>

Made possible with funding from the US EPA



Upcoming Events 2024



EPA Region 2



lerkimer College Herkimer, NY

Mohawk Valley Brownfield Basics April 10, 2024

Mohawk Valley Brownfield Developers Summi April 23 & 24, 2024

EPA Region 4



Community and Economic Development Initiative of KY

Martin-Gatton College of Agriculture, Food and Environment

University of Kentucky – CEDIK Lexington, KY

Scott County Extension Office Brownfields Grant Writing Bootcamp April 1 & 2, 2024

TAB In Your Area

If you'd like NJIT TAB to visit your area, feel free to contact us!

Life After BOA Webinar March 28, 2024

LinkedIn Event Page https://bit.ly/3lg1Qbt



In Case You Missed It





NJIT provides free technical assistance to state, regional, county, tribal, and local government entities and nonprofit organizations interested in learning about, identifying, assessing, cleaning up, and redeveloping brownfield sites in EPA Regions 2 & 4.

Contact Us







www.njit.edu/tab



Sources

- <u>https://www.ayresassociates.com/storytelling-campaigns-spur-brownfield-redevelopment/</u>
- <u>https://deqblog.com/2020/10/02/from-former-grocery-store-to-the-garden-of-surging-waves-a-brownfields-success-story/</u>
- <u>https://www.maulfoster.com/news/astoria-municipal-landfill-redevelopment-wins-brownfield-phoenix-award/</u>
- <u>https://theagency-ny.com/broome-county-binghamton-economic-business-news/adaptive-re-use-of-two-historic-endicott-johnson-buildings</u>
- https://en.wikipedia.org/wiki/Superfund
- https://en.wikipedia.org/wiki/Church_Rock_uranium_mill_spill
- <u>https://narativ.com/dei/boost-dei-with-storytelling/</u>
- <u>https://camd.northeastern.edu/featured-work/how-a-new-england-town-fights-environmental-injustice-one-brownfield-at-a-time/</u>

