



UNIVERSITY of  
**HOUSTON**  
COLLEGE of TECHNOLOGY  
Foresight

# Scanning Source ID.

**Bo Roe**  
Candidate, MSc. Foresight

**NEXT**

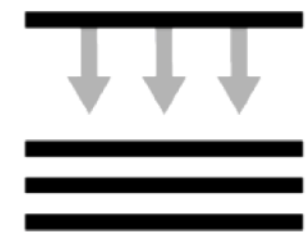
# OBJECTIVES

---

*Set up an ongoing horizon scanning system on the future of forestry for the USFS.*



Framing



**Scanning**



Forecasting



Visioning



Planning



Acting

## 1 Continued Scanning

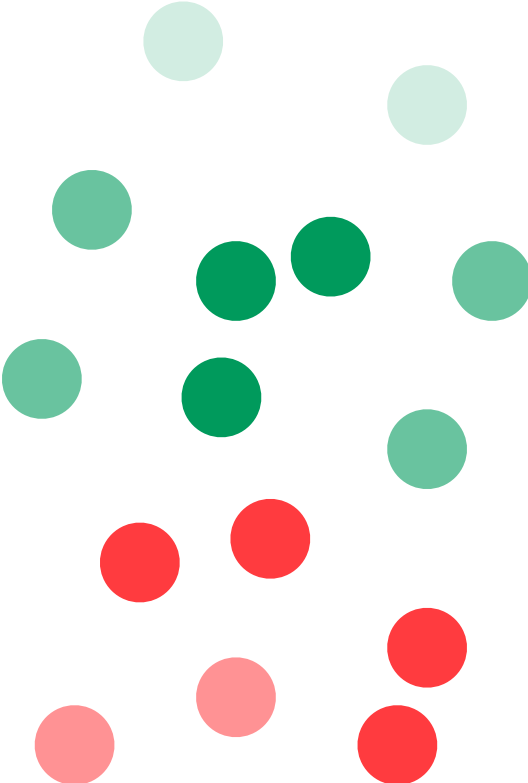
Using the existing scanning guide, domain map, and scenario frames of reference — partner with the USFS team to augment an existing database of scan hits using a common architecture and tagging system.

## 2 Source Identification

Develop a set of sources to monitor in support of ongoing horizon scanning and foresight communications efforts within the USFS. Describe, organize and prioritize these future sources of content.

# OVERALL PROCESS

---



SCAN HITS



CONTENT MGMT

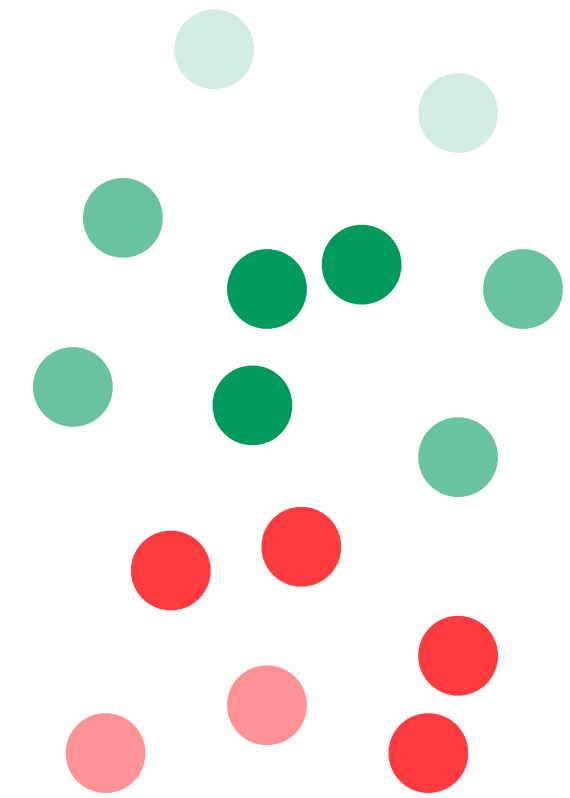


SOURCE RANKING

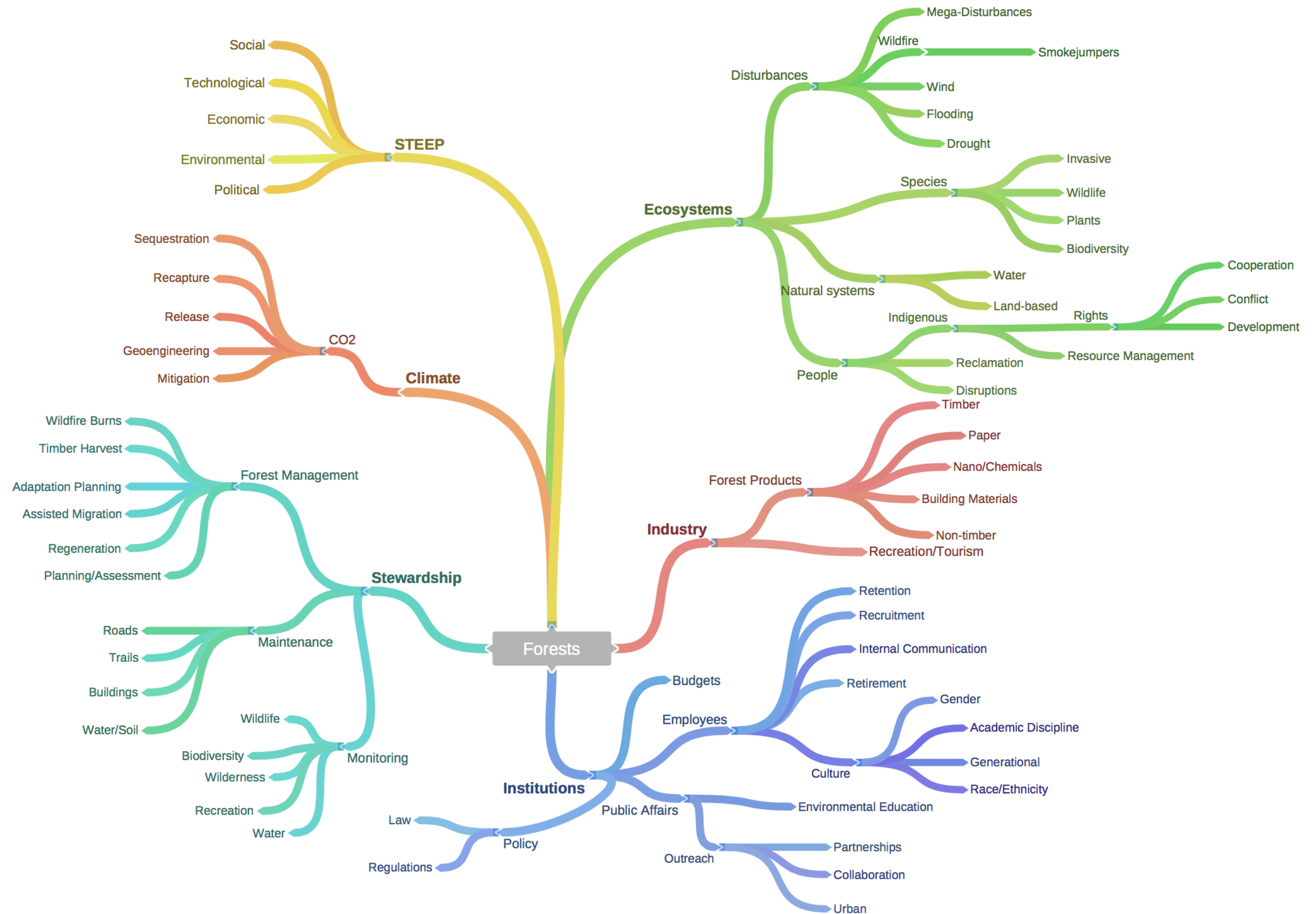


CUSTOM SEARCH

# SCANNING



## SCAN HITS



# SCANNING

---



**Virtual Forest** - 1 views  
[virtuaforest.io/about.html](http://virtuaforest.io/about.html)

Horizon 2 ecosystems people VR recreation

shared by **Bo Roe** on 24 Oct 16 - Comment - Like - No Cached - Save To My Library - More▼

😊 **dbengston** liked it

**Bo Roe** on 24 Oct 16 - Edit - Delete

Project provides live full view VR video feeds from a forest - enabling telepresence experiences of nature. Points to increasingly distant relationship between culture and forest.

# CONTENT MGMT

# SOURCE ID

---



Isolate

Investigate

Abstract

Sort & Document

TITLE	URL	TAGS	COMMENT
Monsanto Nets First CRISPR License to Modify Crops--with Key Restrictions	<a href="http://www.scientificamerican.com/article/monsanto-nets-first-crispr-license-to-modify-crops-with-key-restrictions/">http://www.scientificamerican.com/article/monsanto-nets-first-crispr-license-to-modify-crops-with-key-restrictions/</a>	horizon 2, technology, genetic engineering, CRISPR	"Agriculture giant Monsanto has licensed CRISPR-Cas9 genome-editing technology from the Broad Institute for use in seed development, the company announced on Thursday, a step that will likely accelerate and simplify the creation of crops that are resistant to drought or have consumer-pleasing properties such as soybean oil with fats as healthy as those in olive oil."

...

# SOURCE RANKING

# SOURCE ID

---

Isolate

**Investigate**

Abstract

Sort & Document



## Source Value Rating (1-7 scale)

- Horizons covered?
- Number of hits?
- Scanners sourcing?
- Likelihood of producing additional hits?
- Relevance to domain?

# SOURCE RANKING

# SOURCE ID

---



Isolate

Investigate

**Abstract**

Sort & Document

- **[base URL]**/about
- [www.google.com/search?q=\[base URL\]&sitesearch=wikipedia.org&btnI](http://www.google.com/search?q=[base URL]&sitesearch=wikipedia.org&btnI)
- **CATEGORY** and **SUBCATEGORIES** covered

**FORESTRY**

**GENERAL**

**FUTURES**

---

TECH - ENVIRONMENTAL - GOVERNMENT - CULTURE - MASS - POLITICAL - DESIGN - SCIENCE

# SOURCE RANKING



# SOURCE ID

---



## SOURCE RANKING

Isolate

Investigate

Abstract

**Sort & Document**

- Define and polish example scan hit
- Prioritize
  1. Forestry Domain Centric
  2. Futures Oriented
  3. General (High rating)
  4. General (Low rating)

# SOURCE ID

Title	Hyperlinks	About (from site about page or wikipedia)	Sub-Category	Category	Rate (1-7)	Hit	Hit Description
Friday Off Cuts	<a href="http://www.fridayoffcuts.com/">http://www.fridayoffcuts.com/</a>	Forestry news, forestry equipment, forestry tenders and forestry technology. Friday Offcuts is the leading weekly electronic newsletter read by Australasian forest products companies.	Forestry	Forestry	6	Massive Veneer Based Engineered Wood Products	Mass plywood panels (MPP) of up to 12ft x 48ft x 2ft are possible using new techniques - engineering the individual veneer layers can create highly customized engineered panels for complex load bearing in wood constructed for skyscrapers.
Global Timber Forum	<a href="http://www.gtf-info.com/">http://www.gtf-info.com/</a>	The Global Timber Forum is an international advocacy and networking hub for timber trade federations, national and regional industry bodies, and others in and associated with the sector. Its goals are to provide a conduit for disseminating news, views and information, facilitate industry-wide coordination and collaboration, discuss and promote international consistency in policy and legislation, advocate the interests of the wood and forestry sector, and create a channel for sharing best practice.	Forestry	Forestry	6	Wood helps see clearly – Swedish researchers develop wood windows	Optically transparent wood produced from removing the lignin and impregnating the porous veneer with a tuned polymer -- leads to inexpensive, sustainable substrate for solar panels of the future.
Society of American Foresters	<a href="http://www.eforester.org">http://www.eforester.org</a>	Thriving forests. Essential resources. Strong communities. We challenge landowners, decision makers, and society at large to make choices about our forests based on professional knowledge, leading-edge thinking, and a century of practical experience. We seek viable pathways forward, balancing diverse demands on our natural resources. We set the standard in forest management, bringing science, best practice and the best people together to actively shape the future of the profession. The organization's scientific journal and newsletters are good sources of active research.	Forestry	Forestry	5	Restricted Recreational Access Leads to Increased Conservation	Open access to privately owned land leads to a tragedy of the commons — following the economic model, in a future the state could restrict public access to private lands in an effort to drive increased conservation — shifting the social perception of outdoor recreation.
Renewable Bioproducts Institute - Ga Tech	<a href="http://rbi.gatech.edu">http://rbi.gatech.edu</a>	Georgia Tech's Renewable Bioproducts Institute delivers innovation in converting biomass into value-added products, developing advanced chemical and bio-based refining technologies, and advancing excellence in manufacturing processes. We bring sophisticated resources and multi-disciplinary expertise to partners with renewable materials and product development needs in order to create innovative product and process solutions. RBI was created from a predecessor Institute with a rich history — 87 years — of forest products research excellence. We pursue advanced options for processing a broad range of biomass resources into new and innovative materials and products for the emerging bioeconomy.	Forestry	Forestry	5	Paper-based electronics in development	OLEDs and OFETs have been applied to cellulose nanomaterial substrates to create easily recyclable, flexible applications. Future cellulose screens could be highly flexible with better end of life product lifecycles.
Growing Confidence in Forestry's Future	<a href="http://gcff.nz">http://gcff.nz</a>	This programme is a joint initiative between Scion, the forest growing industry and the Ministry of Business Innovation and Employment. It has been allocated funding from MBIE and from the Forest Growers Levy Trust which is managed through a joint Forest Owners Association/Farm Forestry Association Research Committee.	Forestry	Forestry	5	Spatial optimisation of plantation productivity and value	Digital modeling of plantation density linked to anticipated timber economics yields predictive analytics that guide pruning for the highest site returns. Future AI driven models could anticipate market conditions for grade types (using systems thinking) to maximize yields.
Forest Trends	<a href="http://www.forest-trends.org">http://www.forest-trends.org</a>	Forest Trends works to conserve forests and other ecosystems through the creation and wide adoption of a broad range of	Forestry	Forestry	5	Carbon marketplaces create a mechanism for	Marketplace payments for carbon sequestration in forests continues to rise — future potential for 'carbon farming' as

# SOURCE ID

---



- Load base URLs into CSE
- Define keywords
- Push interface to web presence

## CUSTOM SEARCH

# CSE OUTPUT

wildfire Search ×


About 8,250,000 results (0.37 seconds) Sort by: Date ▾

[Breaking: FL Wildfire Outbreak - State of Emergency](#)


Ad [www.weather.com/](#) ▾  
More than 100 **wildfires** break out in the state. See the latest  
Accurate Weather · Trusted News Source · Precise Weather · Weather Radar

[Local Radar Maps](#)   [Weather Alerts](#)  
[Top Weather Stories](#)   [National Forecast](#)


---

 [Wildfire threatens 2,000 homes in southwest Florida | Reuters](#)  
1 hour ago ... A **wildfire** in southwest Florida triggered evacuation orders for about 2,000 homes on Friday, prompting the governor to deploy National Guard ...  
[www.reuters.com/article/us-florida-wildfire-idUSKBN17N2N2](#)

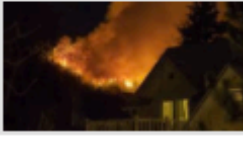
---

 [New era of Western \*\*wildfire\*\* demands new ways of protecting people ...](#)  
4 days ago ... Current **wildfire** policy can't adequately protect people, homes and ecosystems from the longer, hotter fire seasons climate change is causing, ...  
[https://www.sciencedaily.com/releases/2017/04/170417182935.htm](#)

---

 [Why people have to learn to live with \*\*wildfires\*\* | Grist](#)  
4 days ago ... Communities across the Western U.S. and Canada may have to adapt to living with the ever-increasing threat of catastrophic **wildfires** as global ...  
[grist.org/article/why-people-have-to-learn-to-live-with-wildfires/](#)

---

 [Driven by heat and high winds, \*\*wildfires\*\* are 10 times worse this year ...](#)  
Mar 20, 2017 ... **Wildfire** season, or the period between spring and late fall when dry weather, heat, and ignition sources make **wildfires** more likely, is already ...  
[https://thinkprogress.org/wildfire-season-begins-with-a-blaze-69b24a36b38b](#)

# IMPLICATIONS & DISCUSSION

---



- Contribution biases
- Three horizons
- Limitations of platform



- Composite v. discrete rating
- Base URL centric
- Tagging analysis



- Very approachable, but fragile
- Indicative, not comprehensive
- Iterate for validation



UNIVERSITY of  
**HOUSTON**  
COLLEGE of TECHNOLOGY  
Foresight

**THANK YOU.**

**Bo Roe**  
Candidate, MSc. Foresight

 @boroe

 bo.roe@newnext.co

**NEXT** 