

**CBS**

## Innovation Strategy - CBS

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## Presentation topics

- Definition of Innovation
- Innovation Challenges
- From Mission to Innovation Strategy
- Implementation of the Innovation strategy
- CBS' radical innovation program



# Definition of Innovation

Creating

ADDED VALUE

for

END-USERS



# Goal of Innovation Strategy

Maximizing

ADDED VALUE

for

END-USERS



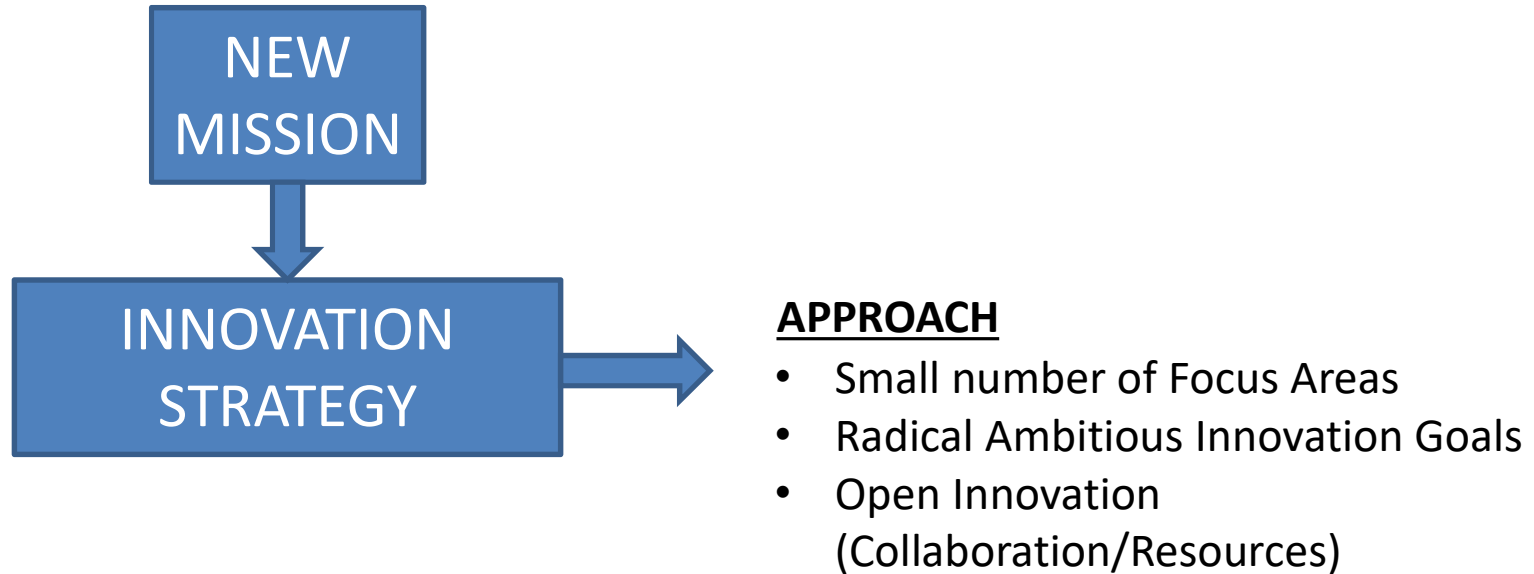
# Most important challenge

## Limited Resources

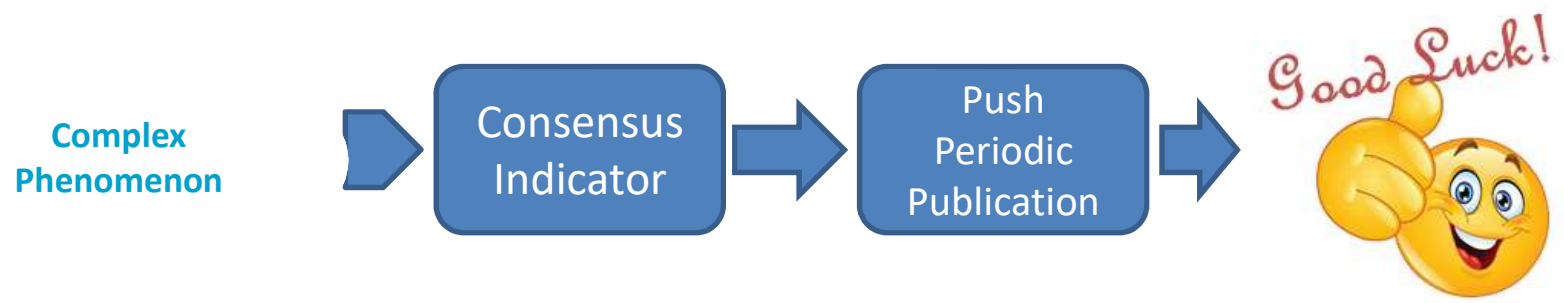
- People
- Money
- Budget Structure
- Legal Framework



# Innovation Strategy Development Process



# Traditional Approach





# The Mission and Objectives of Official Statistics

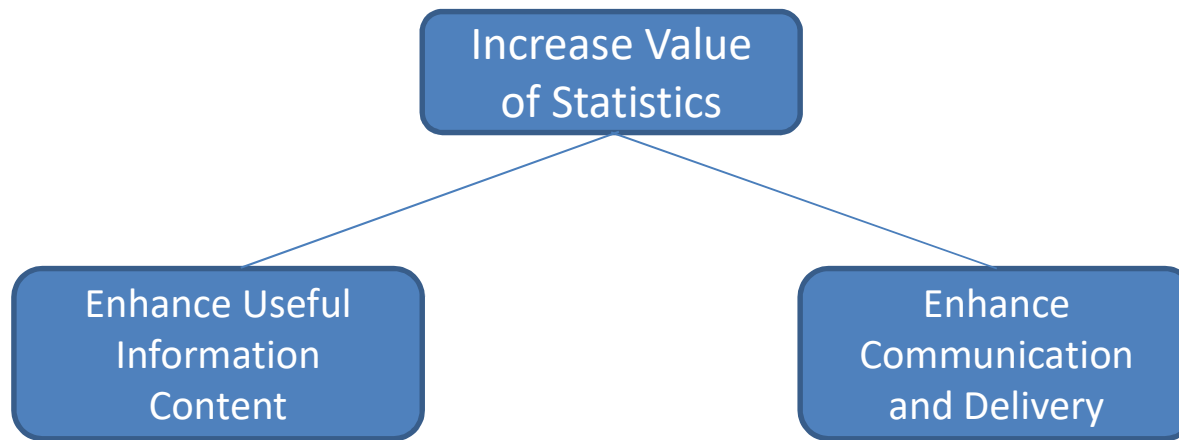
1. Create **Insight** in Complex Societal Phenomena
2. Deliver “**Actionable Intelligence**” to enable Evidence Based Policy Making
3. Quantitative **Monitoring** of Developments and Progress

...with the required *aggregation* level and *timeliness*

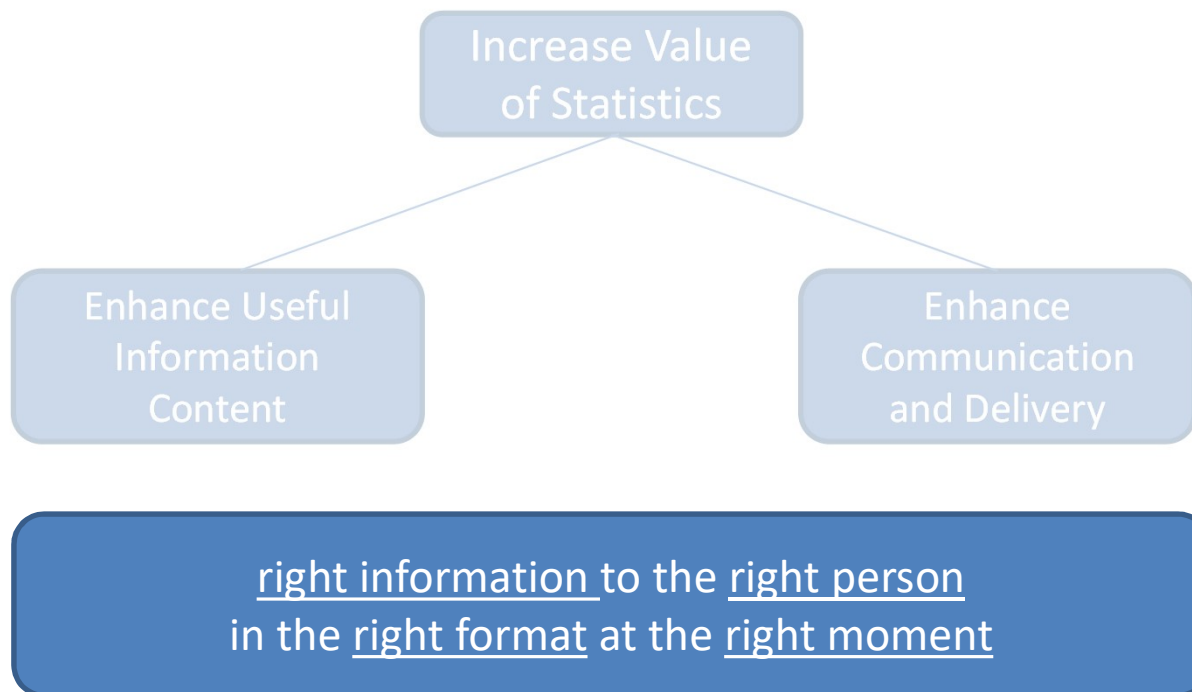
*Statistics are a means to an end*



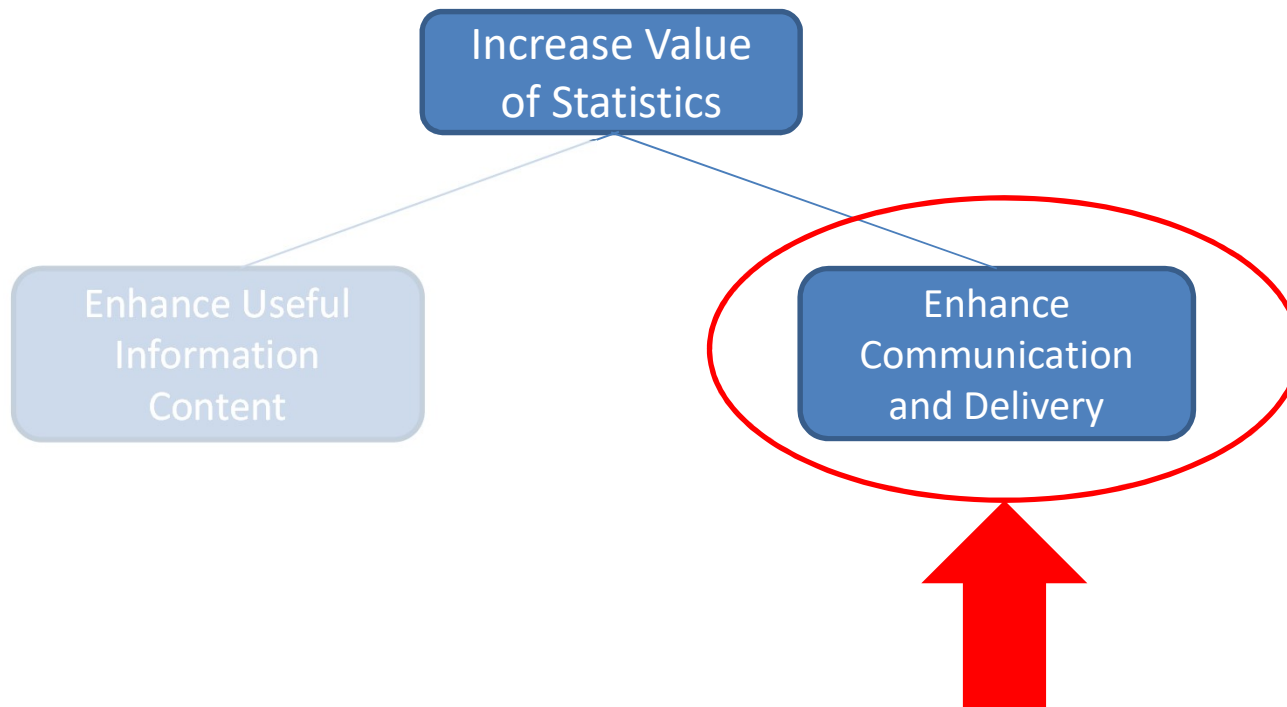
# How to increase the Impact of Official Statistics?



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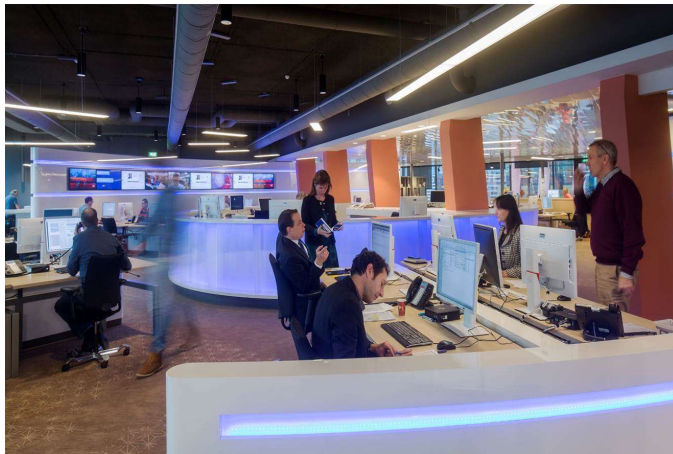


# How to increase the Impact of Official Statistics?



# Enhance Communication and Delivery

## Newsroom and Studio



## Information Dialogue



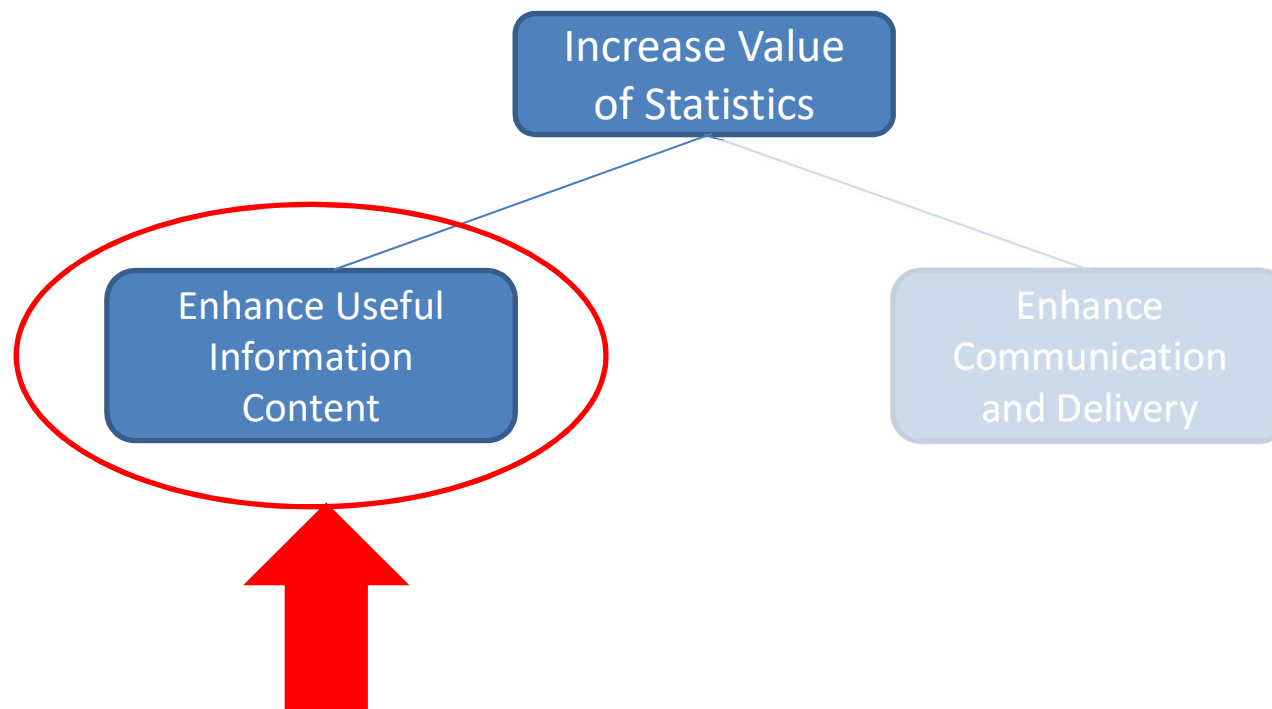
### Goal:

Provide automated and immediate answers to all quantitative questions on the society.

<https://www.youtube.com/watch?v=LA-6LKrsRxw>



# How to increase the Impact of Official Statistics?



Actionable Intelligence  
Aggregation Levels  
Timeliness

conventional methods do not suffice



***admin data** and (proprietary) **sensor data**  
deliver necessary flexibility and detail*



## Access by law to all administrative data







...in many areas



# Enhance Information Content



# Enhance Information Content

Advanced Data Collection

Big Data



## Create:

- **New Statistics** (e.g. SDGs)
- **High Resolution Statistics**
- **"Real-Time" Statistics**

## And:

- **Minimize Surveying**



# Big Data Innovation Ecosystem



# Innovation Website

## Beta products in development



**Heat maps with income level of men and women**

02/11/2017 07:24



**Expansion of maritime statistics: sea routes and cargo**

06/10/2017 13:36



**Are SMEs ready for big data?**

07/06/2017 13:46



**Over 1 billion euros spent in foreign EU webshops**

24/05/2017 12:34



**CBS experimenting with dot maps**

05/04/2017 14:44



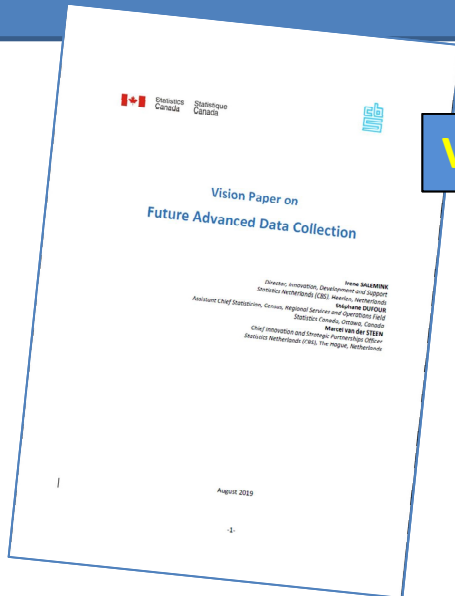
**Social tension indicator based on social media**

31/05/2017 07:15

# Enhance Information Content

Advanced Data Collection

Big Data



Vision Paper

&

Call to Action

- Data Access and Linkage
- Methodology
- Confidentiality, Privacy and Acceptability
- Privacy Preserving Techniques
- Meta Data
- Quality
- Process Redesign



# Observation Strategy

Statistical output is generated to a maximum extent using non-primary data sources.

Searching for available and applicable data sources, data capture modes, and data sharing solutions is an essential part of the collection strategy, as is protecting confidentiality and privacy, with an appreciation for data suppliers and regard for social acceptance.



# Data Sources

Type	Source
Primary	Survey
Secondary	Administrative
Tertiary	Sensors
Quaternary	Proprietary Sensors



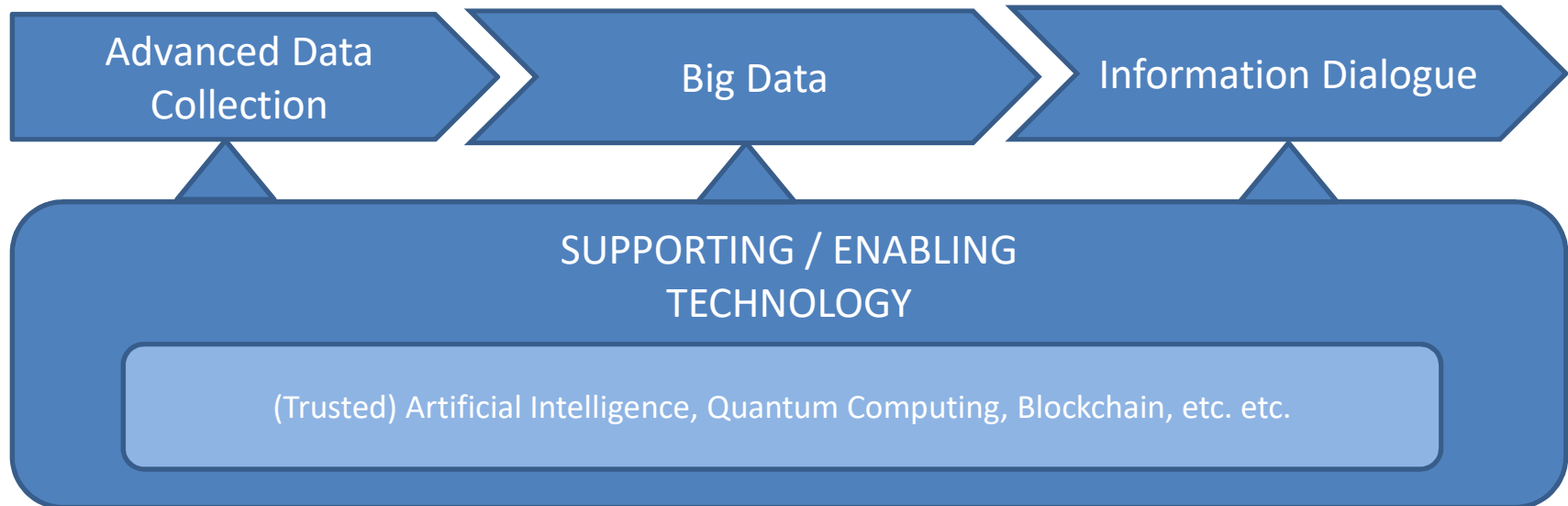


# Data Sources

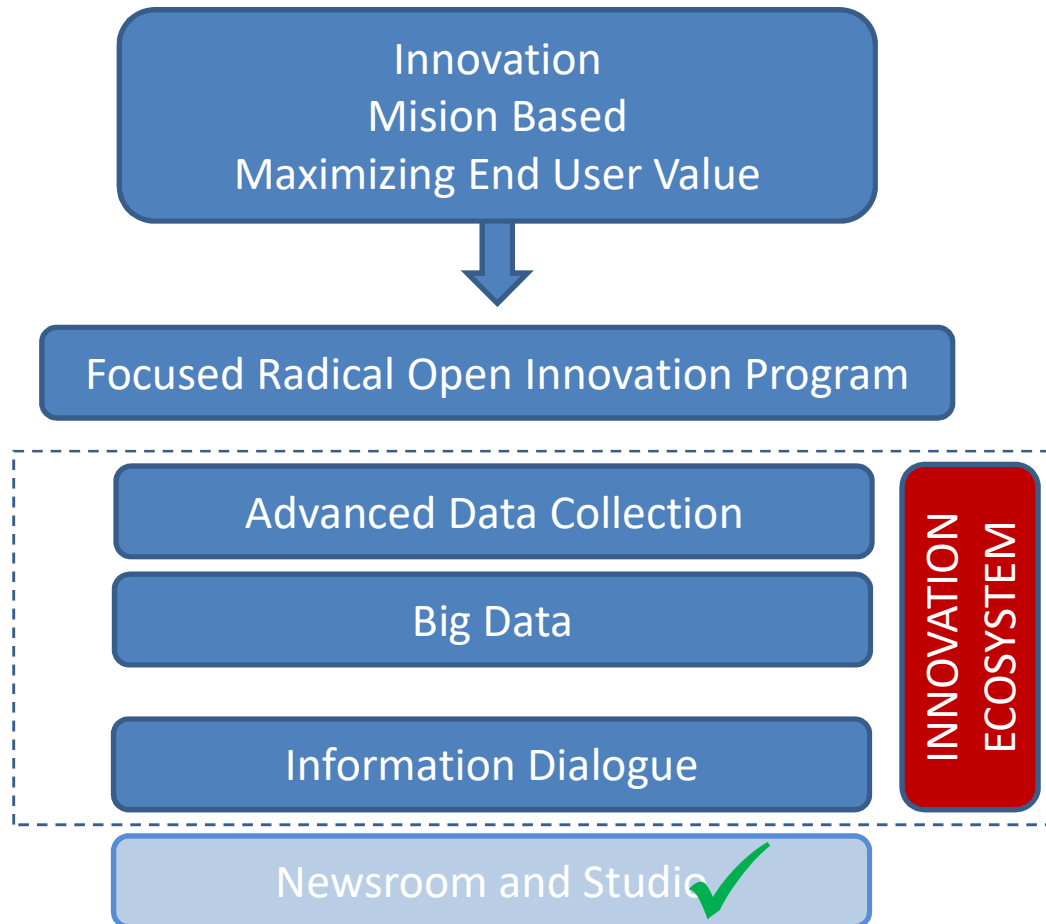
Type	Source	Collected for Official Statistics	Collected Automatically
Primary	Survey	YES	NO
Secondary	Administrative	NO	NO
Tertiary	Sensors	NO	YES
Quaternary	Proprietary Sensors	YES	YES



# Enhance Information Content



# Summary





**Facts that matter**