



ARCHITECTE  
DE SYSTÈMES  
CRITIQUES

IT Systems



Microcontrollers



Telecom



Transportation



Defence



Offshore

Industry



Network &  
Security

From Lawful to Massive Interception :

Aggregation of sources

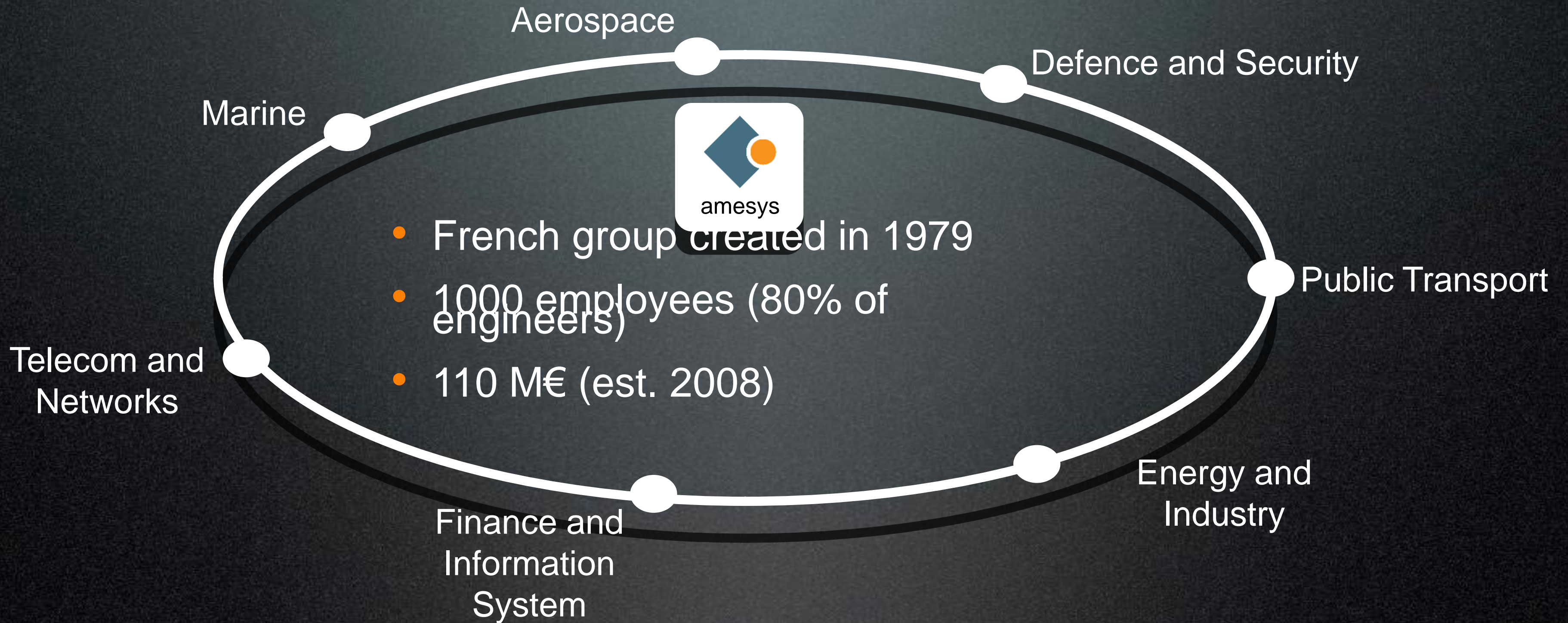
# Agenda

- Introduction
- amesys Company
- Lawful vs Massive
- A centralized point of view
- Range of Products
- Conclusion

# Objectives

- Increasing need of **high-level intelligence** in the constant struggle against criminals and terrorism.
- **Reduce** crime levels.
- **Protect** from terrorism threats.
- **Identify** new incoming security danger

# Organisation



# Location

- Headquarter in Paris
- Main office in Aix en Provence
- 9 agencies  
(Toulouse, Sophia Antipolis, Paris, Rennes, Grenoble, Strasbourg, Bordeaux, Montpellier)
- 4 agencies abroad  
(Morocco, Luxembourg, Germany, Canada)
- An international network of agents in 35 countries



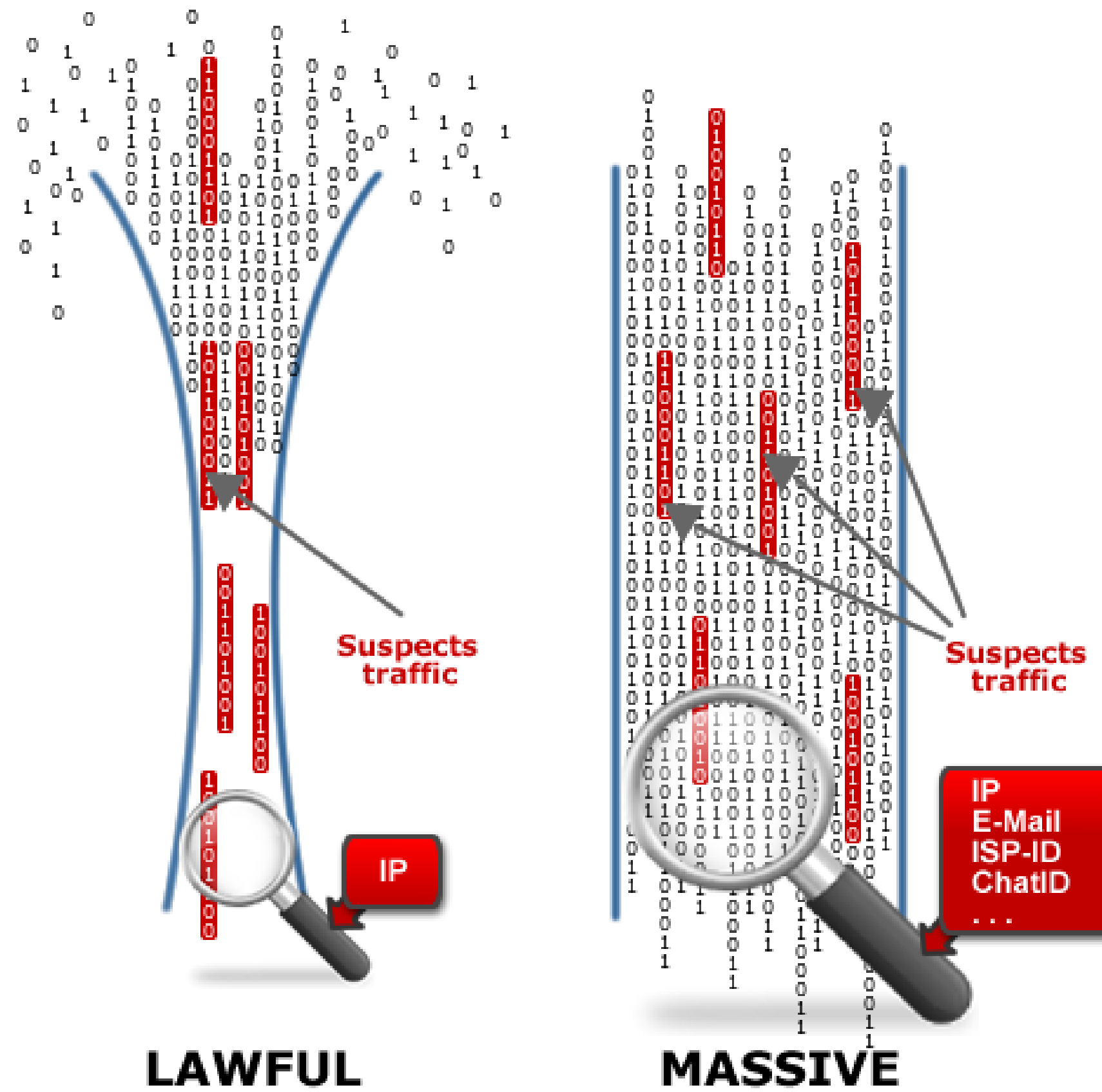
# Lawful vs Massive

# Observations

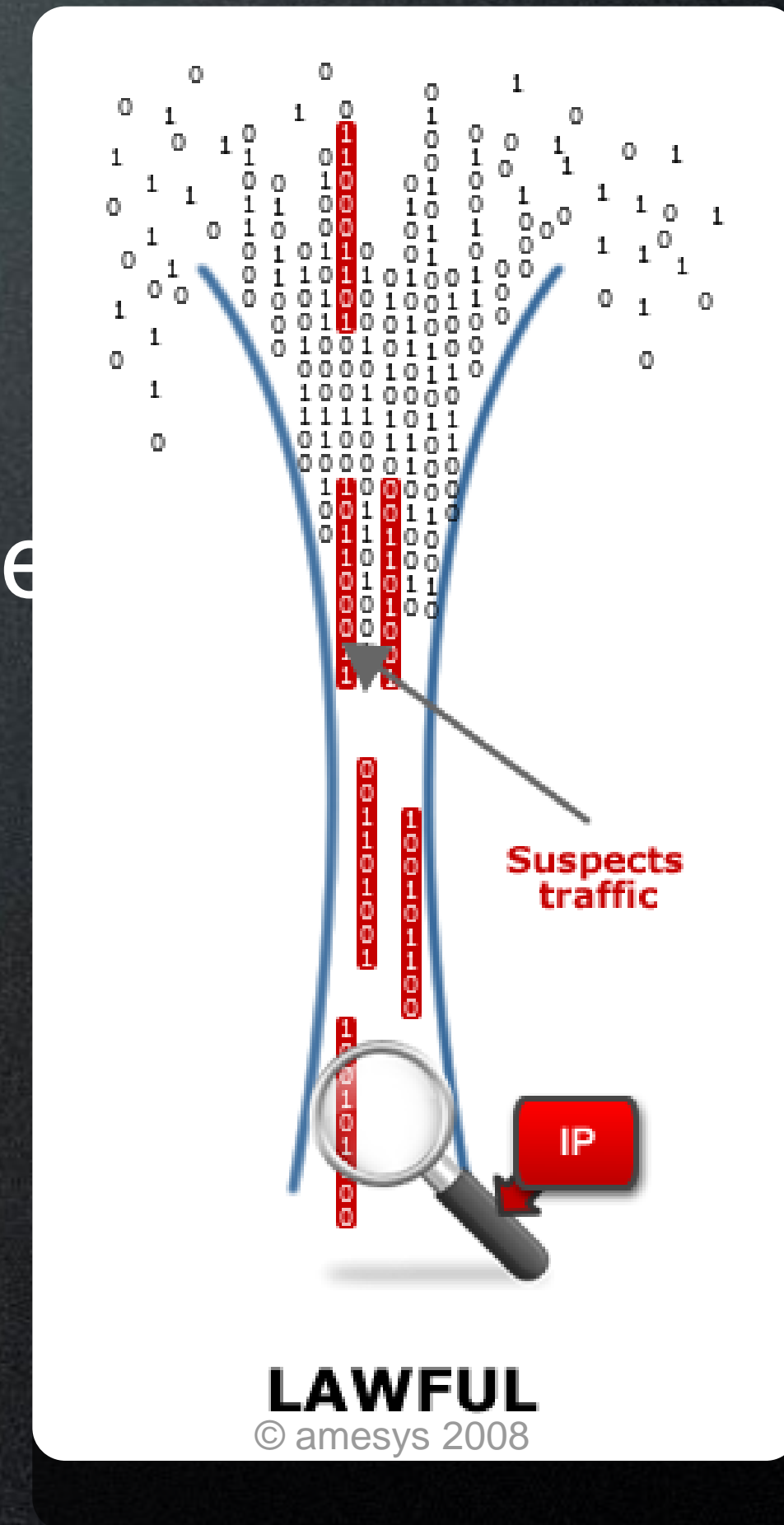
- Numerous countries are installing Lawful IP interception systems
- Fundamental differences between Lawful system and Massive system



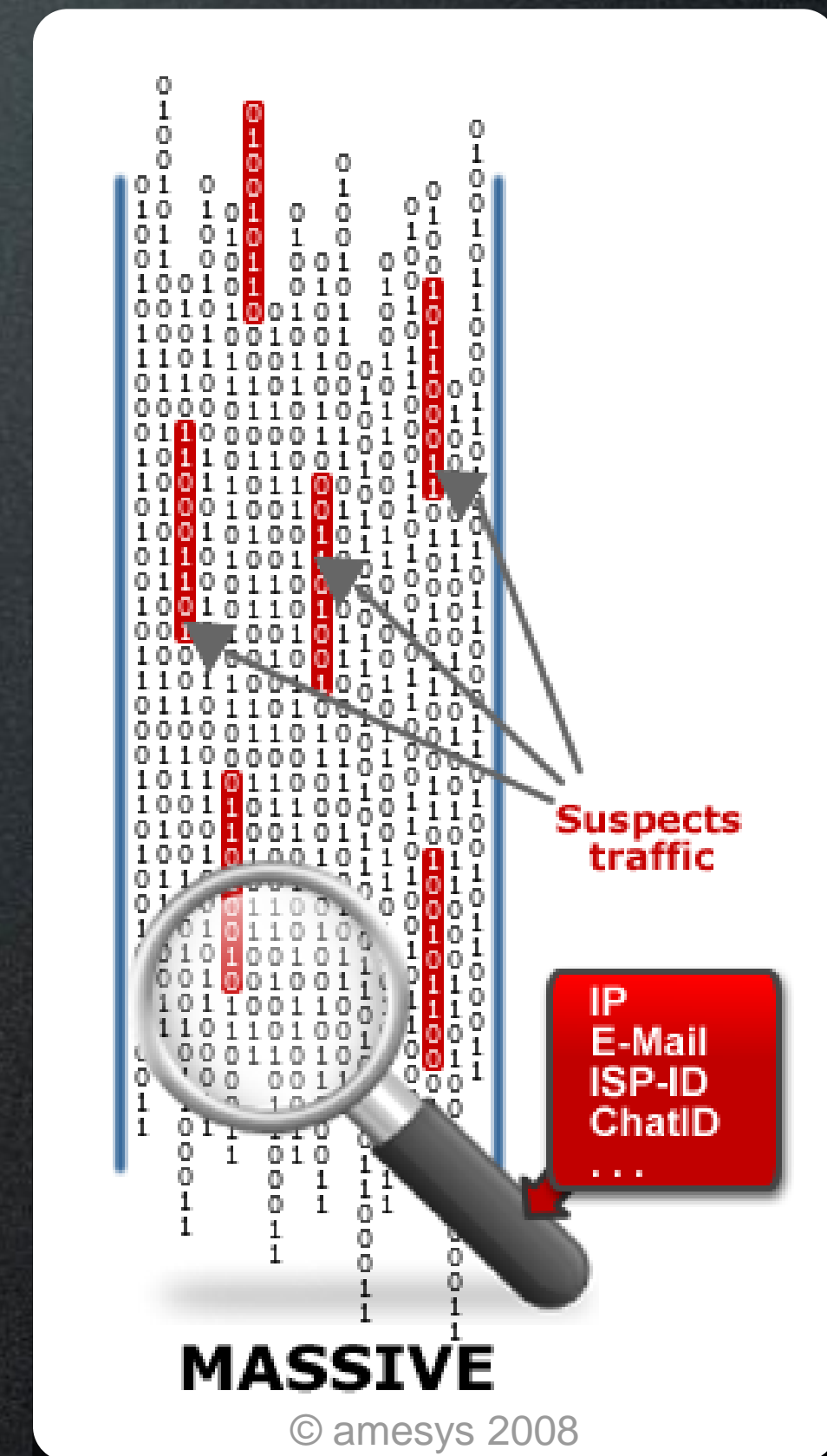
# Lawful vs Massive



- Lawful interception :
  - Basic filtering on IP address
  - Extracts some communications from the global flow
  - Analyze only these communications
  - Only work on predefined targets
  - All the rest will be permanently lost



- Massive interception :
- Advanced filtering tools :
  - ▶ email address, phone number, ISP account identifier, ...
- Analyze all the communications of the link
- Archive of all Internet traffic - Smart search engine to recover communications in the past
- All the communications are store in the system



- Massive advantages
  - Global search and surveillance of all internet traffic
- Define current target based on Internet classical identifiers
- Search a huge one-year archive
- Keep an eye on all the traffic of the network
- Have a global synthesized view

# From Lawful to Massive Interception: Aggregation of sources.

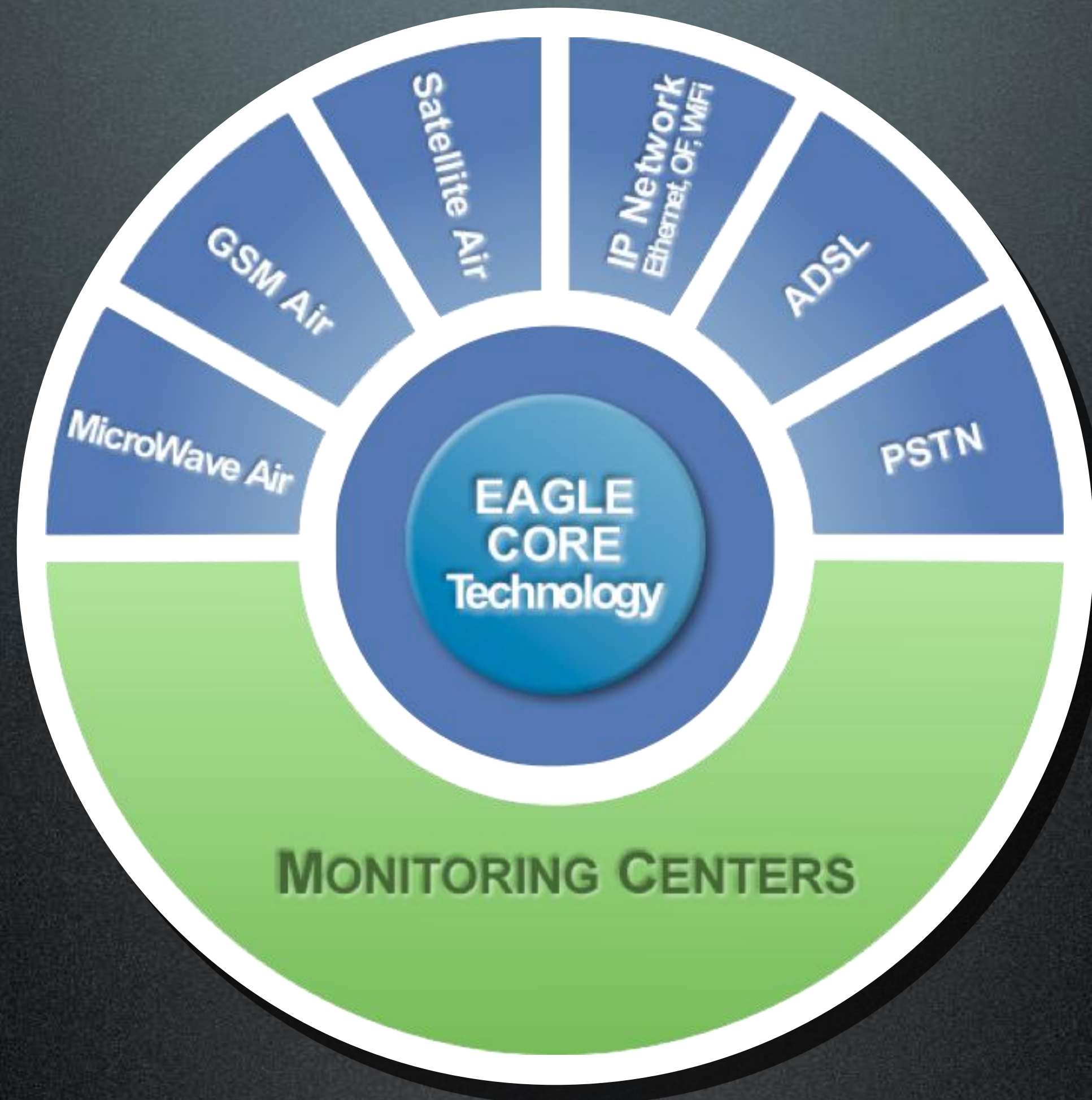
Features	Lawful Interception	Massive Intelligence
Recording target's communications	OK	OK
Social Network for targets	OK	OK
Search in the past for newly identified targets	-	OK
Identification of new potential suspects	-	OK
Discovery of new targets on : <ul style="list-style-type: none"> <li>• Key words</li> <li>• Key topics</li> <li>• Social network</li> </ul>	- - -	OK OK OK
Information synthesizer and production of top-level intelligence	-	OK
Creation of Intelligence Notes for the Authority	-	OK
Full country traffic monitoring	-	OK
Behavioural analysis of data flow	-	OK
Localization	-	OK
Multi captor System	-	OK

# A central point of view

# amesys provides a centralized point of view

- Main objective :  
Aggregate different sources of information
- Every one has access to different supports of communication :
  - ▶ GSM
  - ▶ Analogical phones
  - ▶ IP Network
  - ▶ Microwave links
  - ▶ Satellite

# A centralized point of view

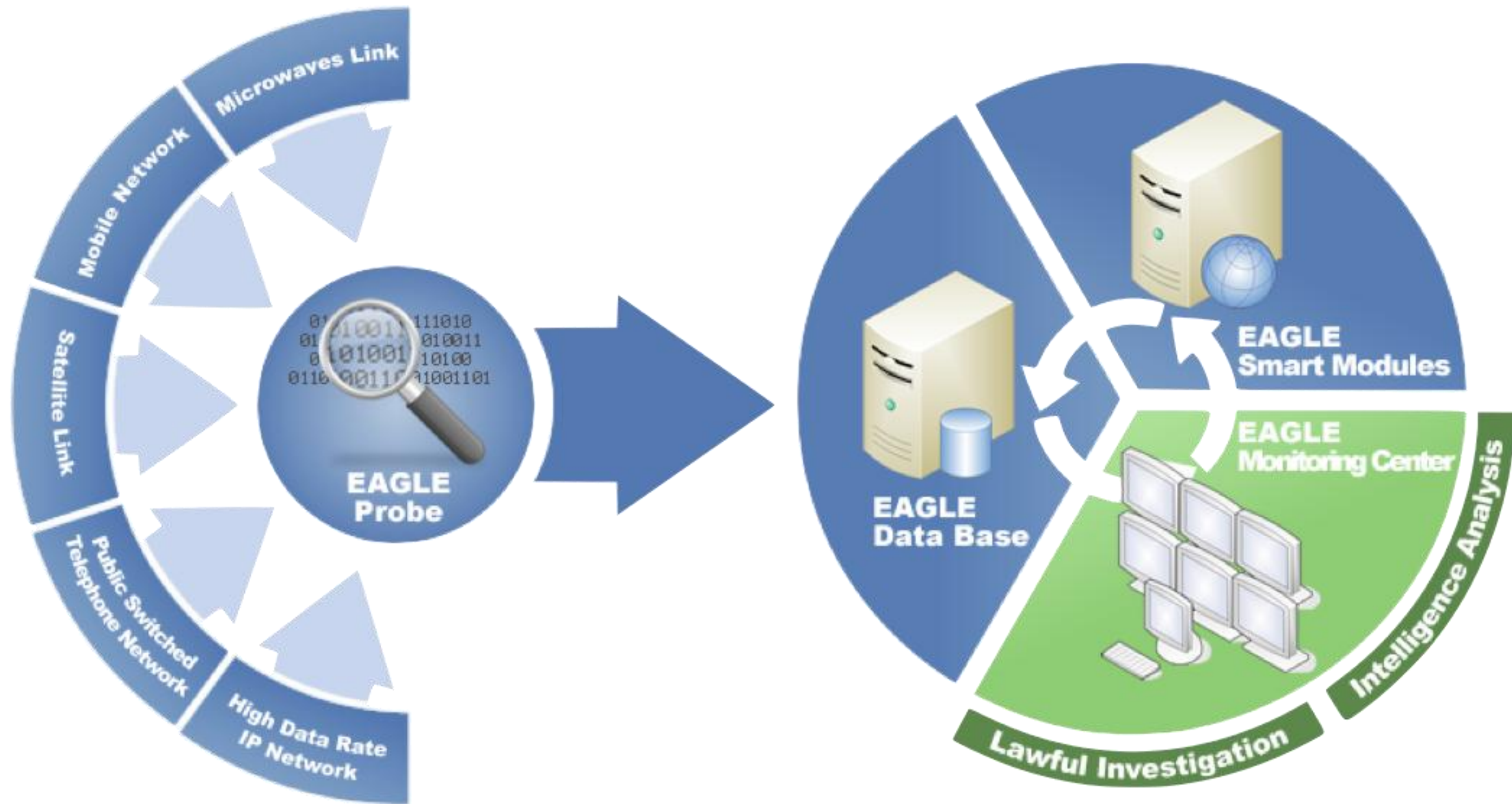




# A centralized point of view

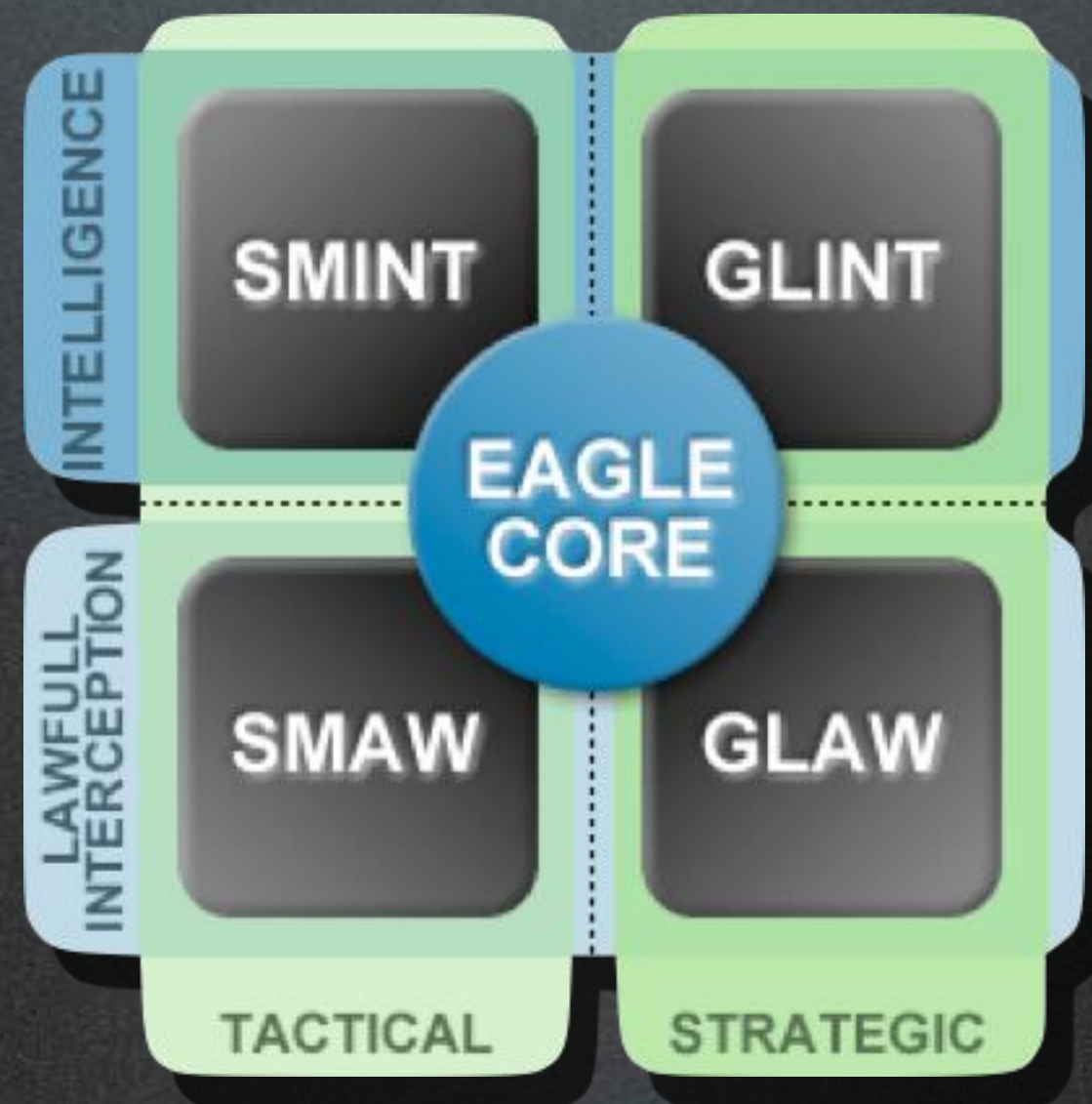
- amesys answers to the need in each of these fields.
- Huge range of sensors and analyzing probes.
- Centralized intelligence system gathering all information.

# A centralized point of view



# Range of Products

- amesys is able to deliver products for Lawful or Massive interception and to provide solutions for Strategic as well as Tactical needs:



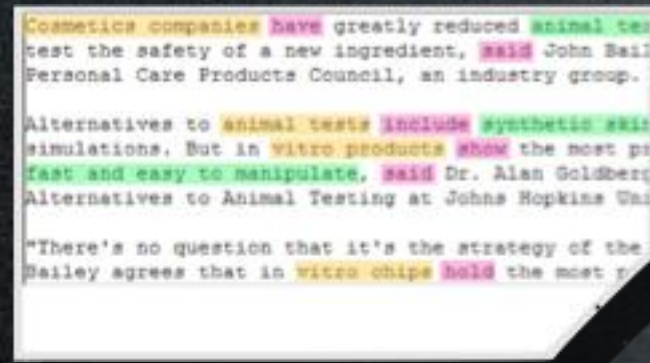
# Smart external modules



- LANGUAGE RECOGNITION & TRANSLATION



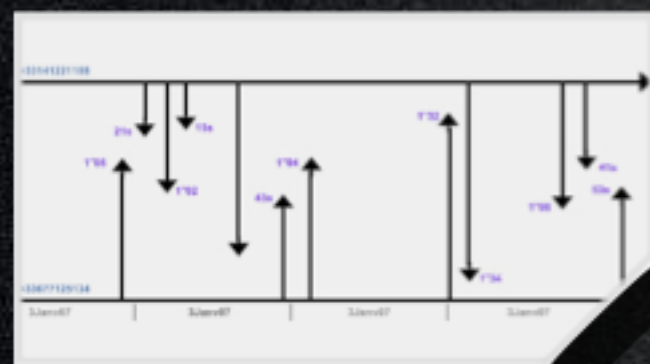
- VOICE TO TEXT – AUTOMATIC TRANSCRIPTION



- SEMANTIC ANALYSIS & TOPIC CLASSIFICATION



- SOCIAL NETWORKS



- TIME LINE

# Conclusion

- To be able to dispose of all information, amesys will provide sensors, probes and centralized system agglomerating all type of information.
- To be productive with it, amesys will integrate the latest technological modules in the most efficient human flowchart.

