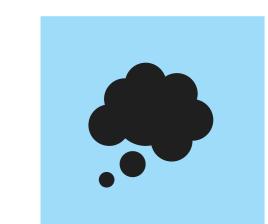
## Says

What have we heard them say? What can we imagine them saying?

What are their wants, needs, hopes, and dreams? What other thoughts might influence their behavior?



**Thinks** 

We analyze the global structure of the worldwide air transportation network, a critical infrastructure with an enormous impact on local, national, and international economies

During the period considered, there are 531,574 unique nonstop passenger flights, or flightsegments, operating between 3883 distinct cities.

The world-wide air transportation network is responsible for the mobility of millions of peo-ple every day. Almost 700 million passengers fly each year, maintaining the air transportationsystem everso close to the brink of failure

Ina small-world network, pairs of nodes are connected by short paths as one expects for a randomgraph

In the air transportation network, the average shortest path length d is the average minimumnumber of flights that one needs to take to get from any city to any other city in the world

The farthest cities in the network are Mount Pleasant, in the Falkland Islands, and Wasu, inPapua New Guinea

## THE GLOBAL AIR TRANSPORTATION **NETWORK WITH TABLEAU**

From Mount Pleasant, one can fly to Punta Arenas, in Chile, and from there to some hubs inLatin America

To gain greater insight into the structure and evolution of the air transportation network,we calculate the degree distribution of the cities.

The degree of a node is a source of information on its importance. However, the degree doesnot provide complete information on the role of the node in the network

Nodes with small degree and large centrality can Another fundamental be regarded as aspect in which realanomalies. Other world networks often complexnetworks that deviate from the have been described in randomgraphs the literature, like the typically considered in Internet mathematical analysis

The degree of a node is a source of information on its importance. However, the degree doesnot provide complete information on the role of the node in the network

## Does

What behavior have we observed? What can we imagine them doing?





What are their fears, frustrations, and anxieties? What other feelings might influence their behavior?

