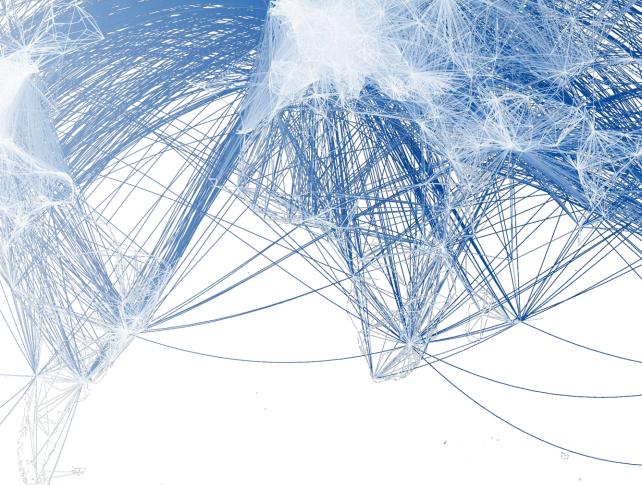
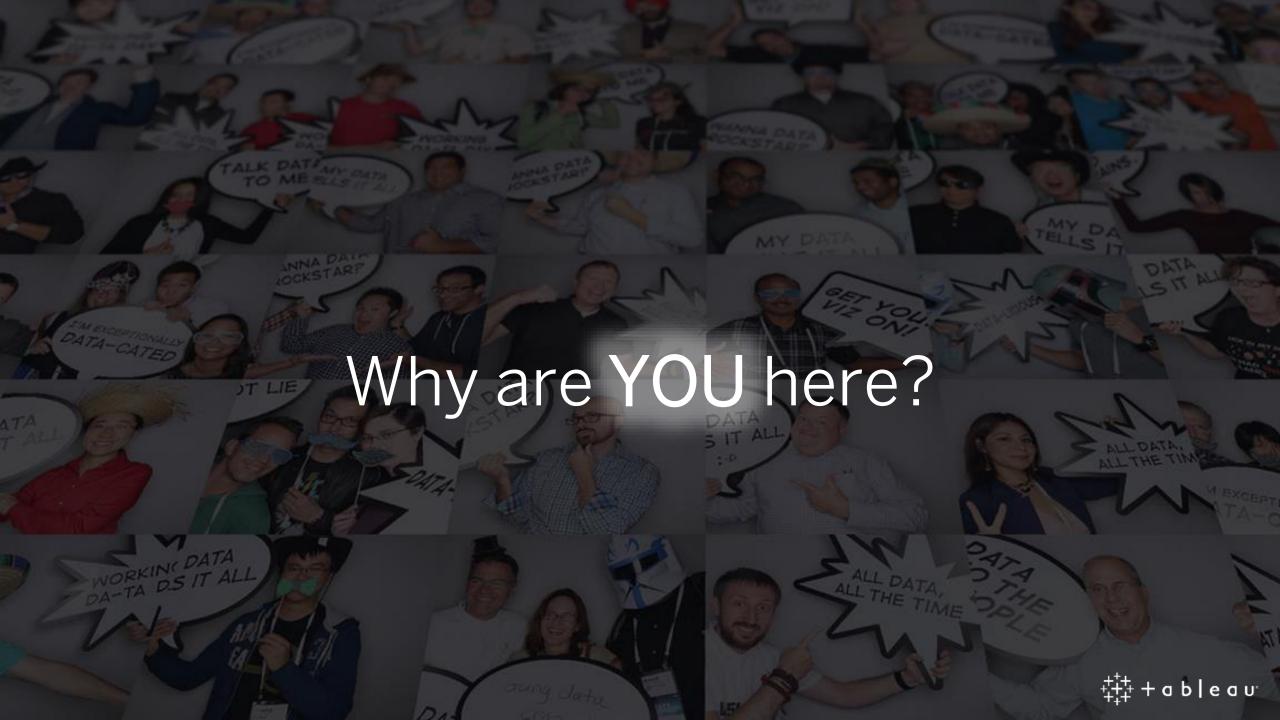


Timo TautenhahnSenior Solution Consultant
Tableau



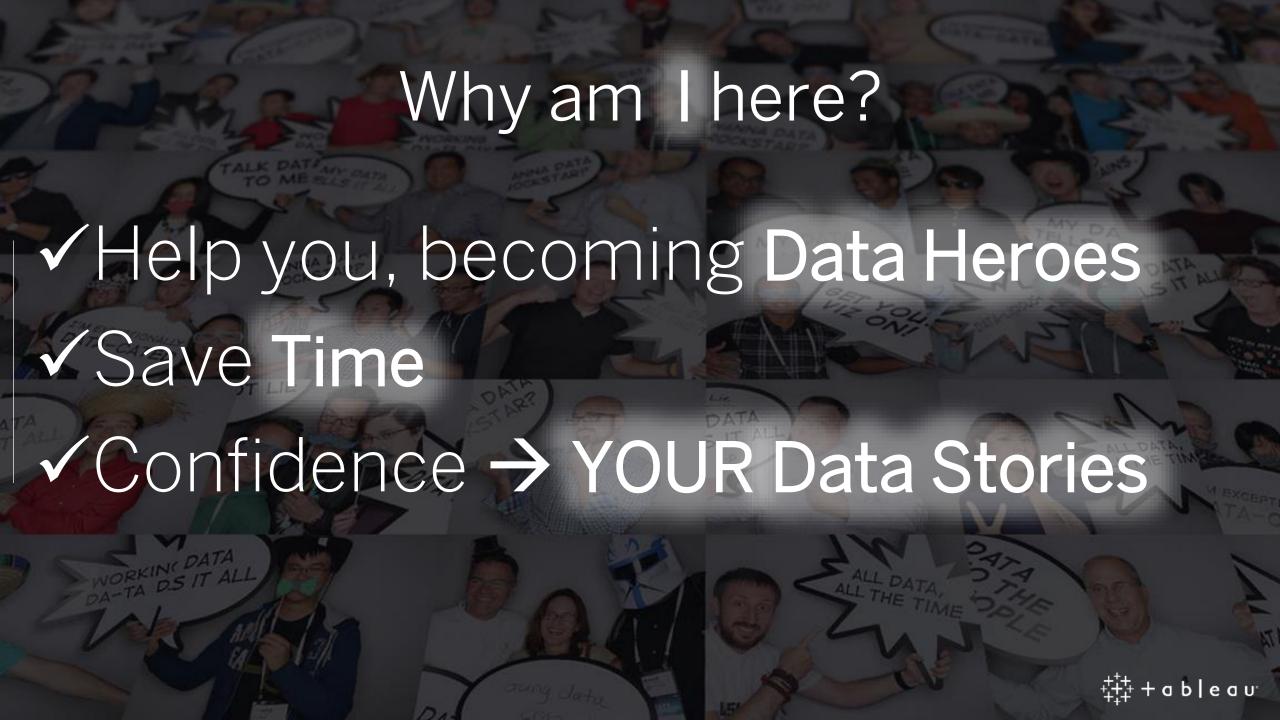














Timo Tautenhahn

Senior Solution Consultant





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Senior Solution Consultant





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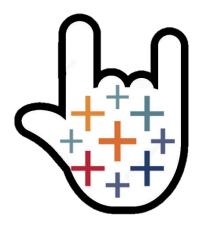
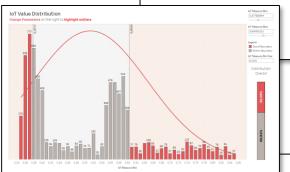


Tableau + 3rd Party Software

Translate Tableau queries into REST Calls - Live!





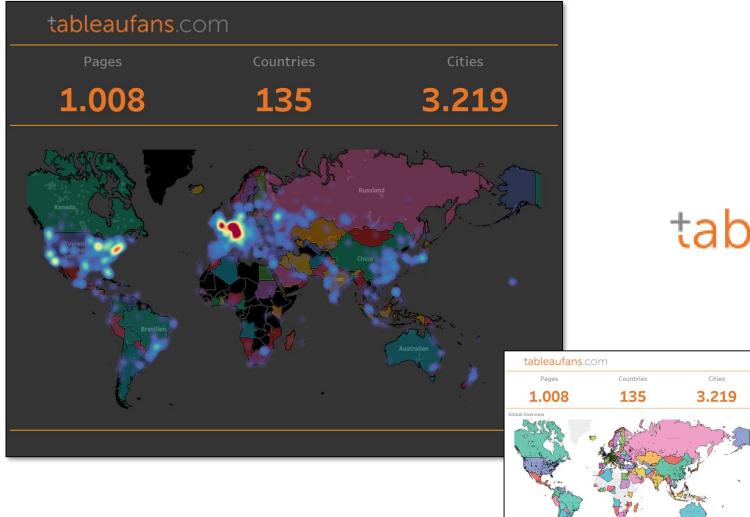
tableaufans.com

Tableaufans.com

Internet of Things (IoT)





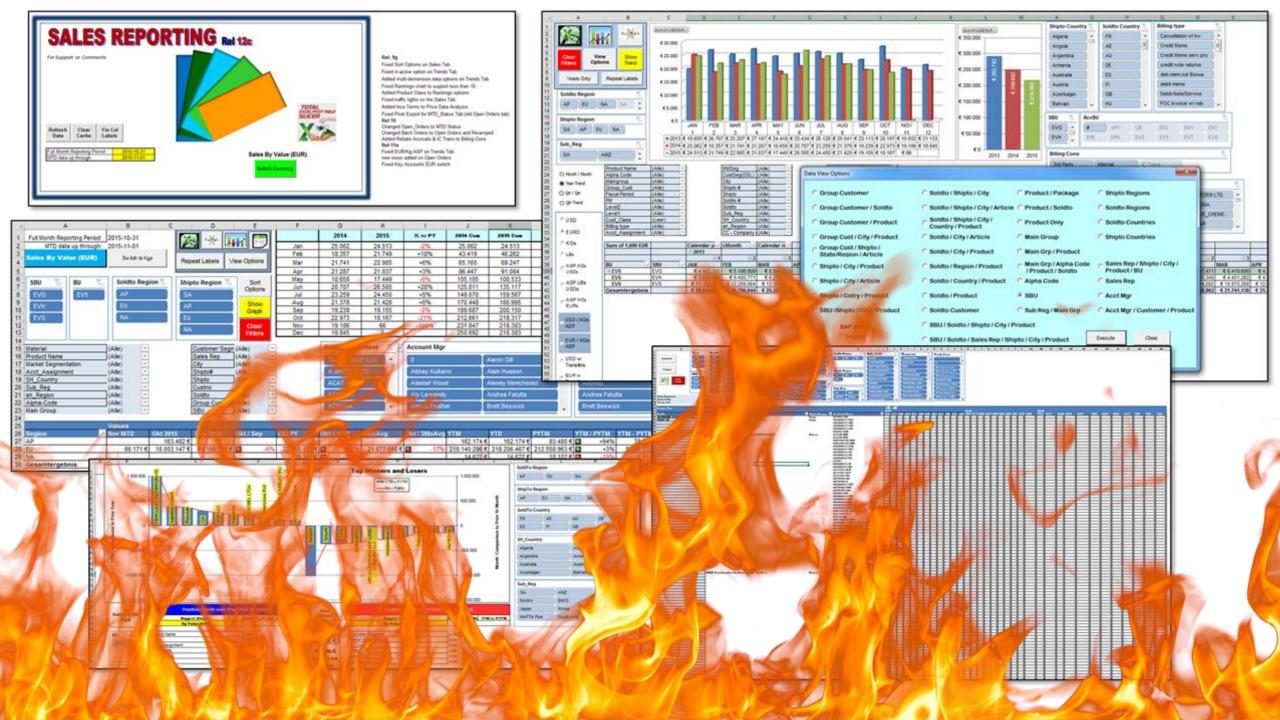


tableaufans.com



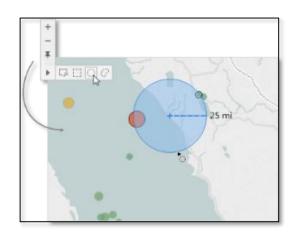


What is **Data Visualization**?

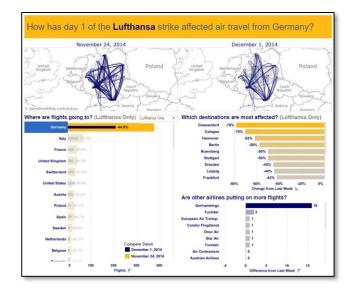


Data Visualization

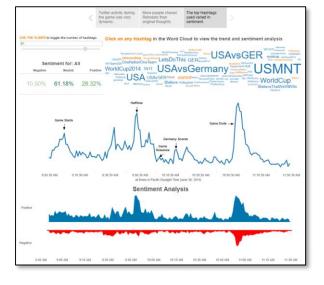
Analysis



Dashboards



Data Stories

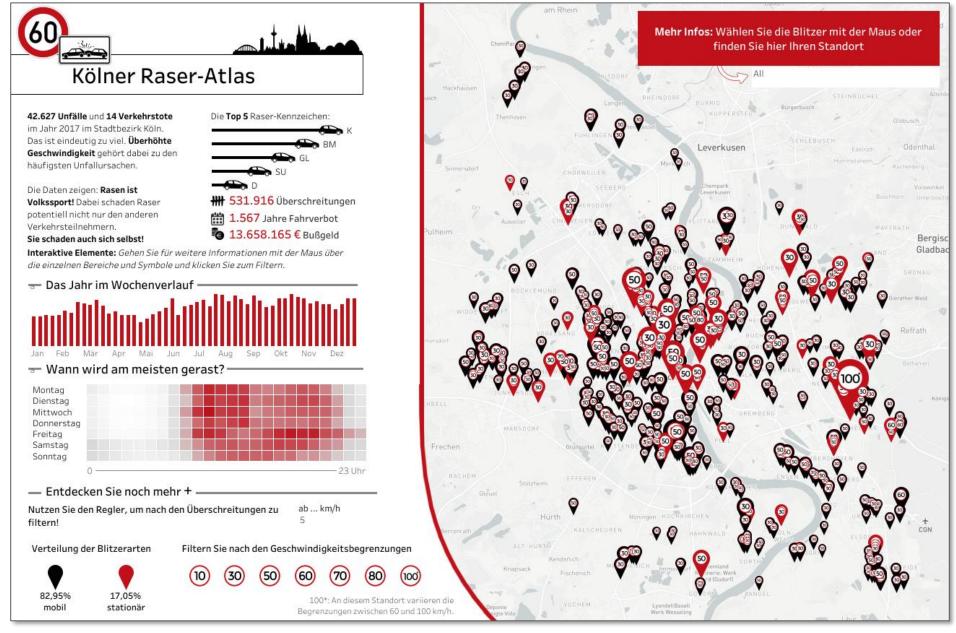




Why Data Visualization?







It aides our understanding

Storytelling with Data The high art of data visualization

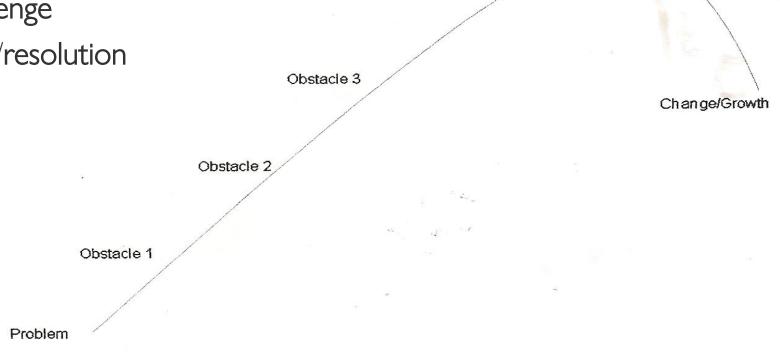




A great data story is like any other story

A great data story is like any other story

- 1. There are characters
- 2. There is a challenge
- 3. There is insight/resolution
- 4. There is an arc



Black Moment

Resolution



Demo **Spotify**

Data **Story**





ECONOMIE Monde Entreprises Bourse Argent Comparateur Emploi Immobilier Médias Crise de l'euro Offshore Leaks

La photographie de l'Europe en récession

Le Monde | 20.05.2013 à 18h50 • Mis à jour le 20.05.2013 à 20h01



La crise de 2008 avait arrêté la croissance européenne pour plusieurs mois, faisant basculer dans la récession une majorité des pays. La crise de l'euro fait à son tour marquer un coup d'arrêt à la croissance en Europe et la récession touche une dizaine de pays.

Cliquez sur les pays pour obtenir plus d'informations.

Zone euro (17 pays) Premier trimestre 2013 2007 2009 2010 2011 2012 1.00 % 0.80 % 0.60 % 0.50 % 0.40 % 0.60 % Finlande 0.40 % -0.60 % -1.70 % -2.80 % 2009 2010 2012 2... 2007 2008 2011 Pays Allemagne Autriche Belgique Bulgarie Pays-Bas Pologne Chypre Royaume-Uni Danemark Espagne Estonie Luxembourg République tchèque Finlande Slovaquie France Grèce Hongrie Hongrie France Irlande Roumanie Italie Lettonie Lituanie Luxembourg Bulgarie Malte Portugal Espagne Pays-Bas Pologne Portugal République t.. Roumanie Royaume-Uni Slovaquie Slovénie Suède données Eurostat

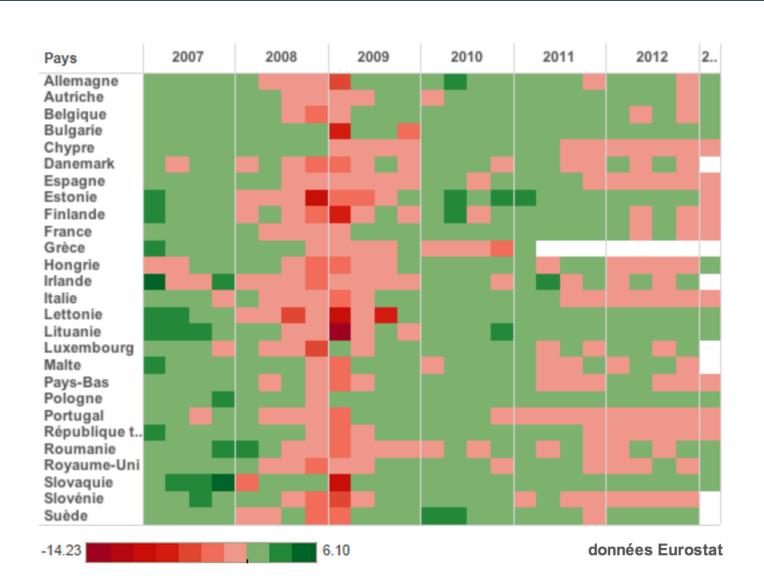
1. Who are the characters?



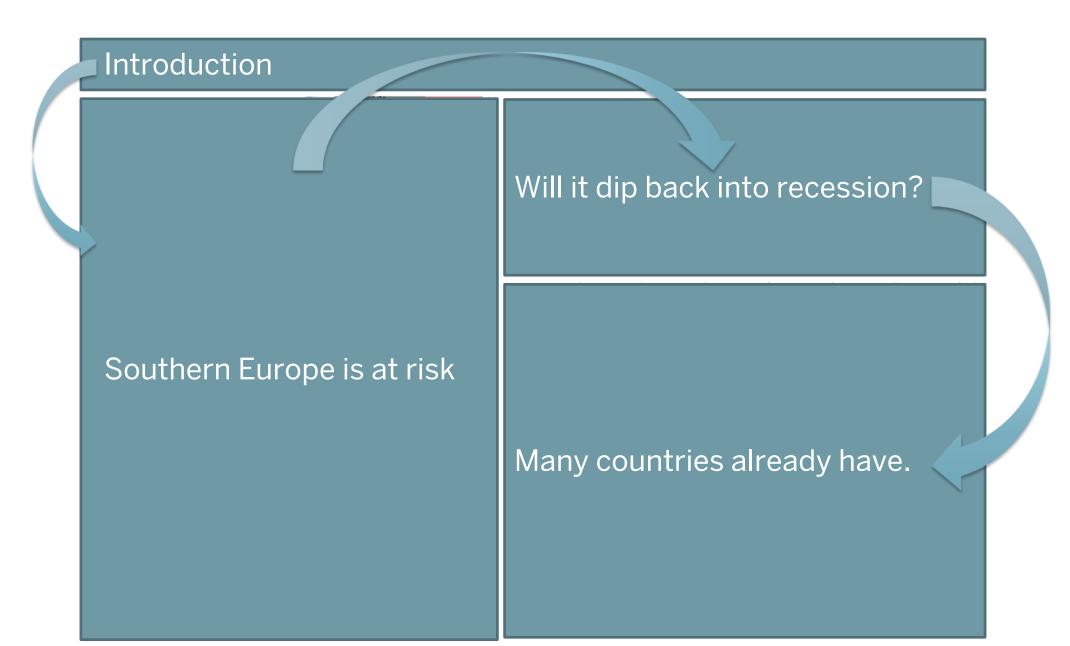
2. What's the challenge?



3. What's the insight?



4. The arc



How did the author enable the audience to get his/her point?

Will we dip back into recession?

Contrast





ÉCONOMIE Monde Entreprises Bourse Argent Comparateur Emploi Immobilier Médias Crise de l'euro Offshore Leaks

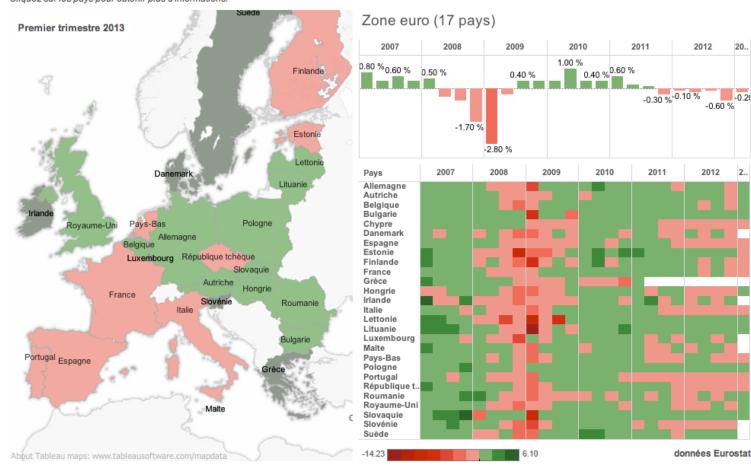
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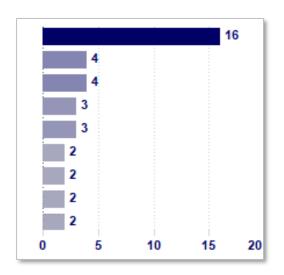


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Cliquez sur les pays pour obtenir plus d'informations.



Data visualization is all about comparison





World politics Business & finance Economics Science & technology Culture

Airports in London

Now get on with it

Britain needs to expand Heathrow airport—and soon

Jul 4th 2015 | From the print edition





FOR over 40 years British politicians have squabbled about where to build runways in south-east England. They have commissioned reports, ordered public inquiries and submitted to judicial reviews. For as long as the paperwork has helped them avoid local protesters, not a shovel has bitten into the ground. No full-length runway has been built to serve Britain's economic powerhouse since the second world war.



Economist.com

In 2012 David Cameron, Britain's prime minister,

dodged the issue again, asking a commission under Sir Howard Davies, an economist, to look into airport expansion. On July 1st Sir Howard published his final report, backing a new runway at Heathrow, Britain's busiest airport (see article). There are worrying signs that Mr Cameron will be tempted to join the long line of paper-pushers.



World politics Business & finance Economics Science & technology Culture

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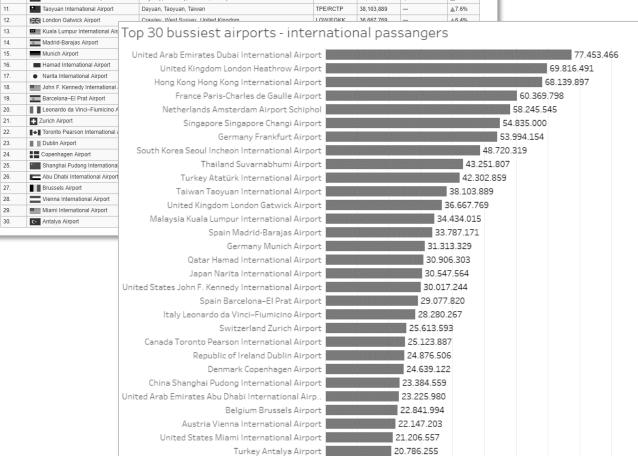






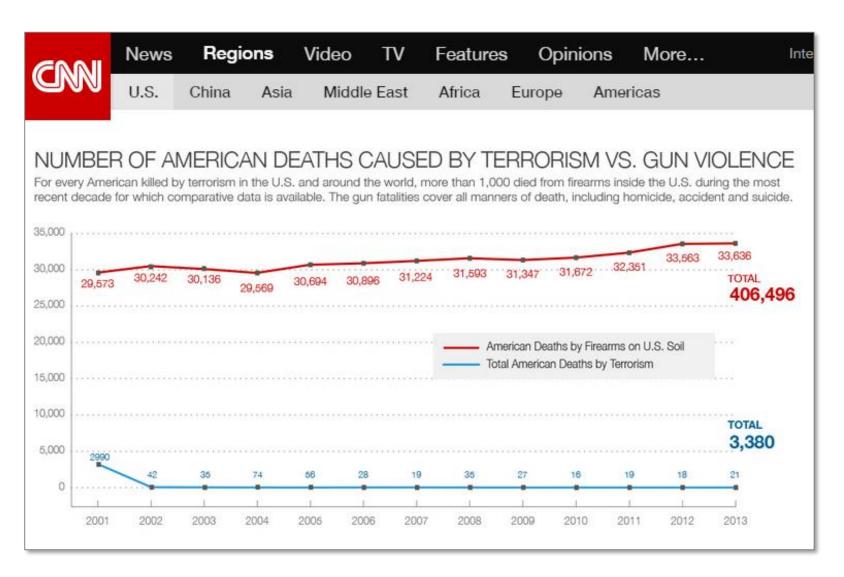


2015 statistics [edit] Airports Council International's (January-December) figures are as follows. [2] Code Total Monthly rank Rank ¢ Airport ♦ (IATA/ICAO) ▲10.7% Dubai International Airport Garhoud, Dubai, United Arab Emirates DXB/OMDB 77.453.466 ▲2.5% London Heathrow Airport Hillingdon, Greater London, United Kingdom LHR/EGLL 69.816.491 HKG/VHHH 68,139,897 ▲8.3% Hong Kong International Airport Chek Lap Kok, Islands, Hong Kong Paris-Charles de Gaulle Airport Roissy-en-France, Val d'Oise, Île-de-France, France CDG/LFPG 60,369,798 ▲3.0% Amsterdam Airport Schiphol Haarlemmermeer, North Holland, Netherlands AMS/EHAM 58.245.545 **▲6.0%** Singapore Changi Airport Changi, East Region, Singapore 54,835,000 ▲2.9% 53.994.154 ▲2.4% Frankfurt Airport Flughafen, Frankfurt, Hesse, Germany FRA/EDDF ICN/RKSI ▲8.5% : Seoul Incheon International Airport Jung-gu, Incheon, South Korea 48.720.319 Suvarnabhumi Airport Racha Thewa, Bang Phli, Samut Prakan, Greater Bangkok, Thailand BKK/VTBS 43,251,807 ▲16.3% ▲11.1% 10. Yesilköy, Bakırköy, Istanbul, Turkey IST/LTBA Atatürk International Airport 42.302.859 Taoyuan International Airpor Davuan, Taoyuan, Taiwan TPE/RCTP 38.103.889 **▲7.6%** LGW/FGKK London Gatwick Airport Kuala Lumpur International Air Top 30 bussiest airports - international passangers 14. Madrid-Barajas Airport

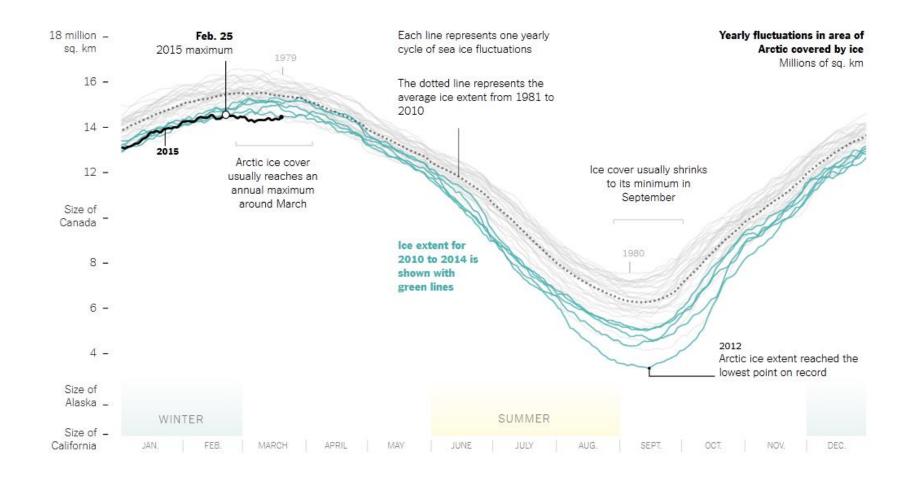


OM 10M 20M 30M 40M 50M 60M 70M 80M 90M











Data Stories accelerate the decision making process.





Christian Novosel Head of Strategic Bl Initiative at Lufthansa Group

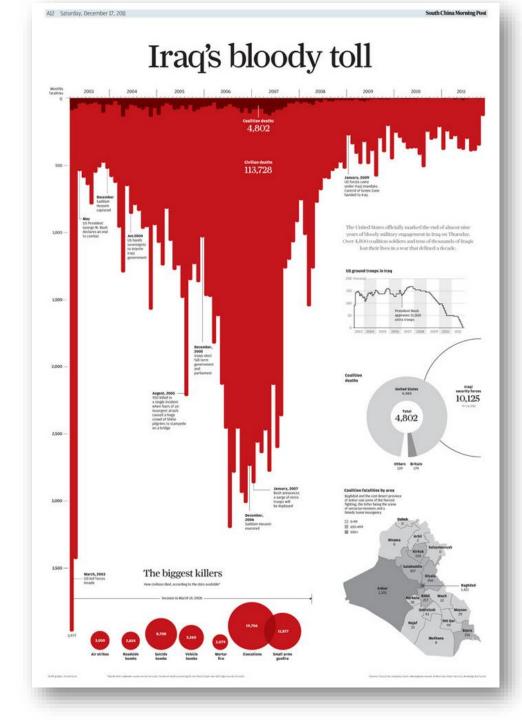
Demo **BASF ECR**Sales & CRM Activities

"Data visualisation is a language. It's a means to convey an opinion, an argument."

Kim Rees – Founding Partner, Periscopic

PERISCOPIC DO GOOD WITH DATA

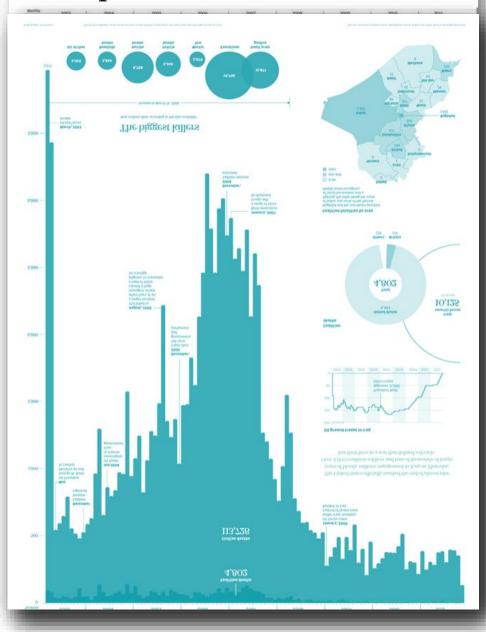


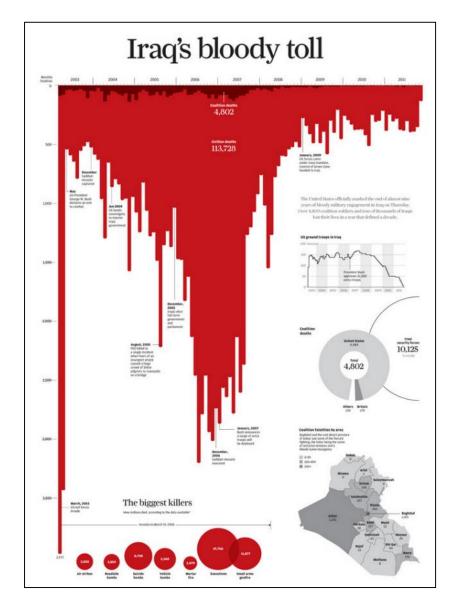


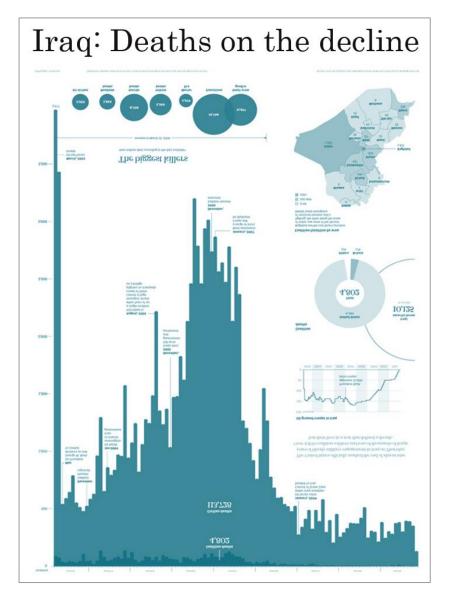


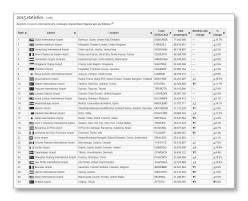
Al2 Saturday, December 17, 2011 South China Morning Post

Iraq: Deaths on the decline









data \rightarrow interpretation \rightarrow action

