

SCIENTIFIC COMMUNICATION

VISUAL COMMUNICATION

PROF. MASSIMO CECARO

WHY IS VISUAL COMMUNICATION SO IMPORTANT FOR SCIENTISTS?

Time Clarity Consistency Memory

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KEY PRINCIPLES TO DESIGN EFFECTIVE POWERPOINT SLIDES

A single message stating the key message limiting text simple graphs signaling steps annotating data tools

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HOW TO DESIGN A POSTER

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OF. MA

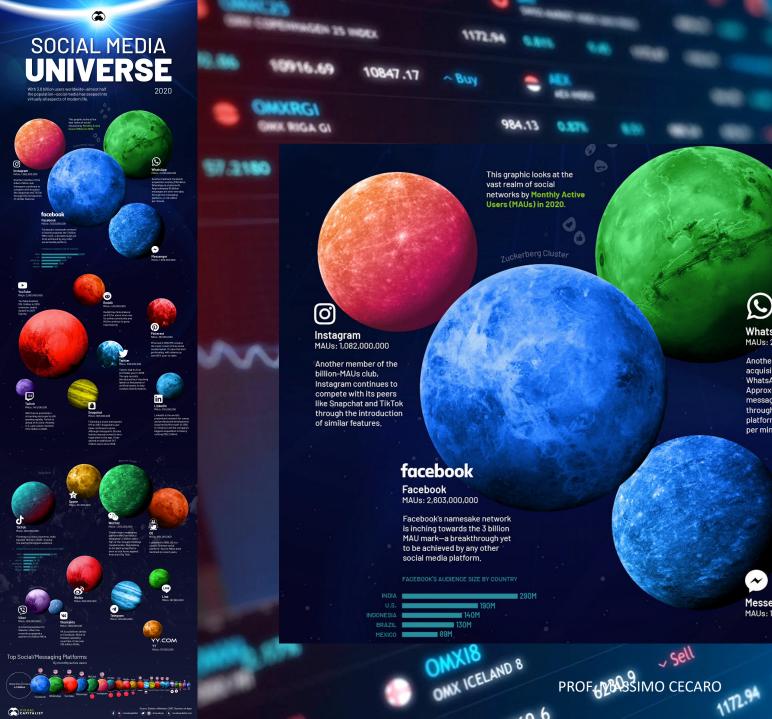
step 1. the story Think about your storyline

step 2. the contents Make use of a clear structure Fewer words Make use of bullet points Graphs and photos

step 3. the design Make use of negative space Background Contact information

HOW TO DESIGN AN INFOGRAPHICS

1. what is an infographics?
 2. creating an infographics
 Develop a storyline
 Elaborate a structure
 Sketch a layout



EXAMPLE



Another hallmark Facebook acquisition costing \$19 billion, WhatsApp is a behemoth, Approximately 65 billion messages are sent everyday through the messaging platform-or 45 million per minute,

~ Messenger MAUs: 1,300,000,000

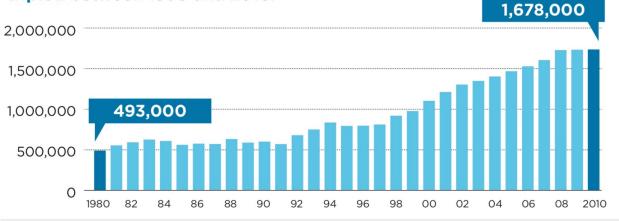
Source Status, eMarketer, CNET, Dari

1. Diabetes is a growing epidemic

The number of people with diagnosed diabetes increased from **5.6 million** in 1980 to **20.9 million** in 2011.¹

1980 Image: Constraint of the state o

The number of new cases of diabetes each year more than tripled between 1980 and 2010.²

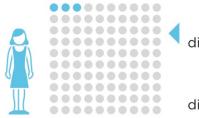


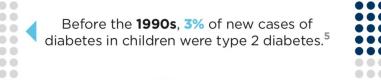
An estimated **1 in 3** children born after 2000 will develop diabetes.³

≈52% of the adult population in 2020 will have either diabetes or prediabetes.⁴

2. With a changing epidemiology

The way diabetes appears in our children is changing.

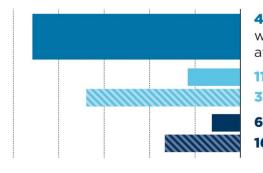




In **2005**, **45%** of new cases of diabetes in children were type 2 diabetes.⁵



Youth with diabetes are failing to control their condition, even after being treated with medicine.⁶



45.6% of youth with type 2 diabetes treated with medicine failed to control their diabetes after a 5-year study ⁶

11.6% had high blood pressure at start⁷
33.8% had high blood pressure 5 years later⁷

6.3% had microalbuminuria at start⁷
16.6% had microalbuminuria 5 years later⁷

Type 2 diabetes is more likely to be diagnosed in minority children and adolescents. $^{\rm 8}$



Percentage of new cases of diabetes in youth that are type 2

3. That we can help prevent

Research has shown that we can prevent or delay progression to type 2 diabetes. Simple changes in lifestyle can significantly reduce risk.⁹



One study showed, together, these 2 lifestyle changes can reduce the risk of progressing from prediabetes to diabetes by **58%** in adults with prediabetes, overall, and by **71%** in adults aged 60+.¹⁰

58% Adults with prediabetes

71% Adults with prediabetes 60+

The National Diabetes Prevention Program, under the direction of the Centers for Disease Control and Prevention (CDC), is a public-private partnership of community organizations, private insurers, employers, health care organizations, and government agencies that offers evidence-based diabetes prevention in local communities.¹¹ For example, the YMCA has nearly 700 sites in 39 states offering diabetes prevention programs.¹²









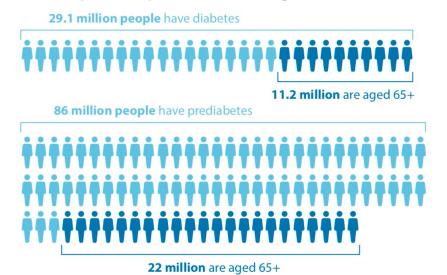
Faith Communities

The Diabetes Burden on Medicare How We Can Reduce It

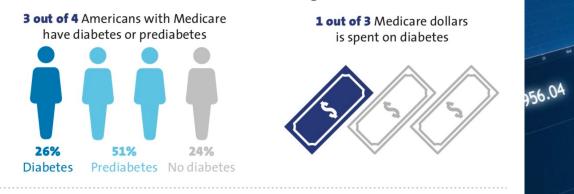
Diabetes is an epidemic problem affecting millions of Americans.

Diabetes Advocacy Alliance™

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Diabetes is overwhelming Medicare.



Sources: Centers for Disease Control and Prevention. National diabetes statistics report: estimates of diabetes and its burden in the United States, 2014. Centers for Medicare and Medicaid Services. Medicare health support (formerly CCIP). https://www.cms.gov/Medicare/Medicare-General-Information/CCIP/index. html?redirect=/CCIP.Updated March 8, 2012. Accessed October 12, 2015.

The number of people aged 65 and older with prediabetes was calculated as 51% of 43.1 million (US Census Bureau estimate for all adults aged 65 and older in 2012)