



Artificial Intelligence and Data



Can You Tell Which Faces Are Real?



Why is This Dog Banned in Illinois?



Moderator

- **Alan Shark**

Presenters:

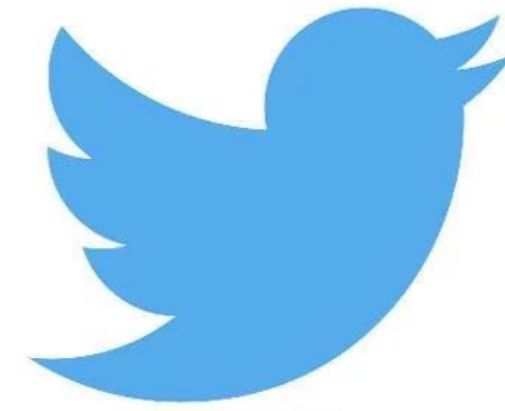
- **Walid El Abed**
- **Namir Anani**
- **Simon Boisserpe**
- **Philippe Denis**
- **Etienne Gehain**
- **Alesandro Guarino**
- **Kaiser Naseem**





More Than 500 Hours Of Content Are
Now Being Uploaded To YouTube Every
Minute

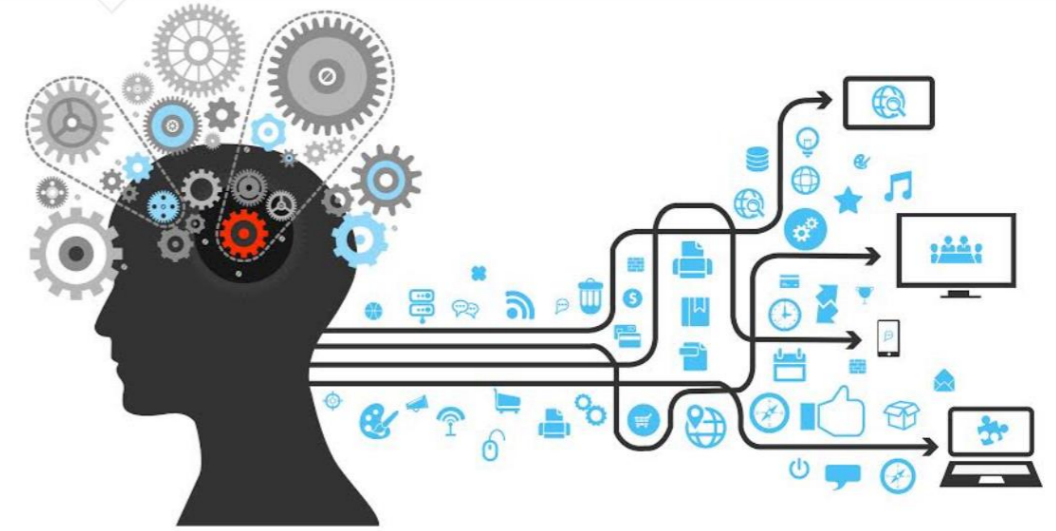




General Twitter

- **500 million tweets are sent each day**
(That's 5,787 tweets every second)
- **326 million people use Twitter every month**



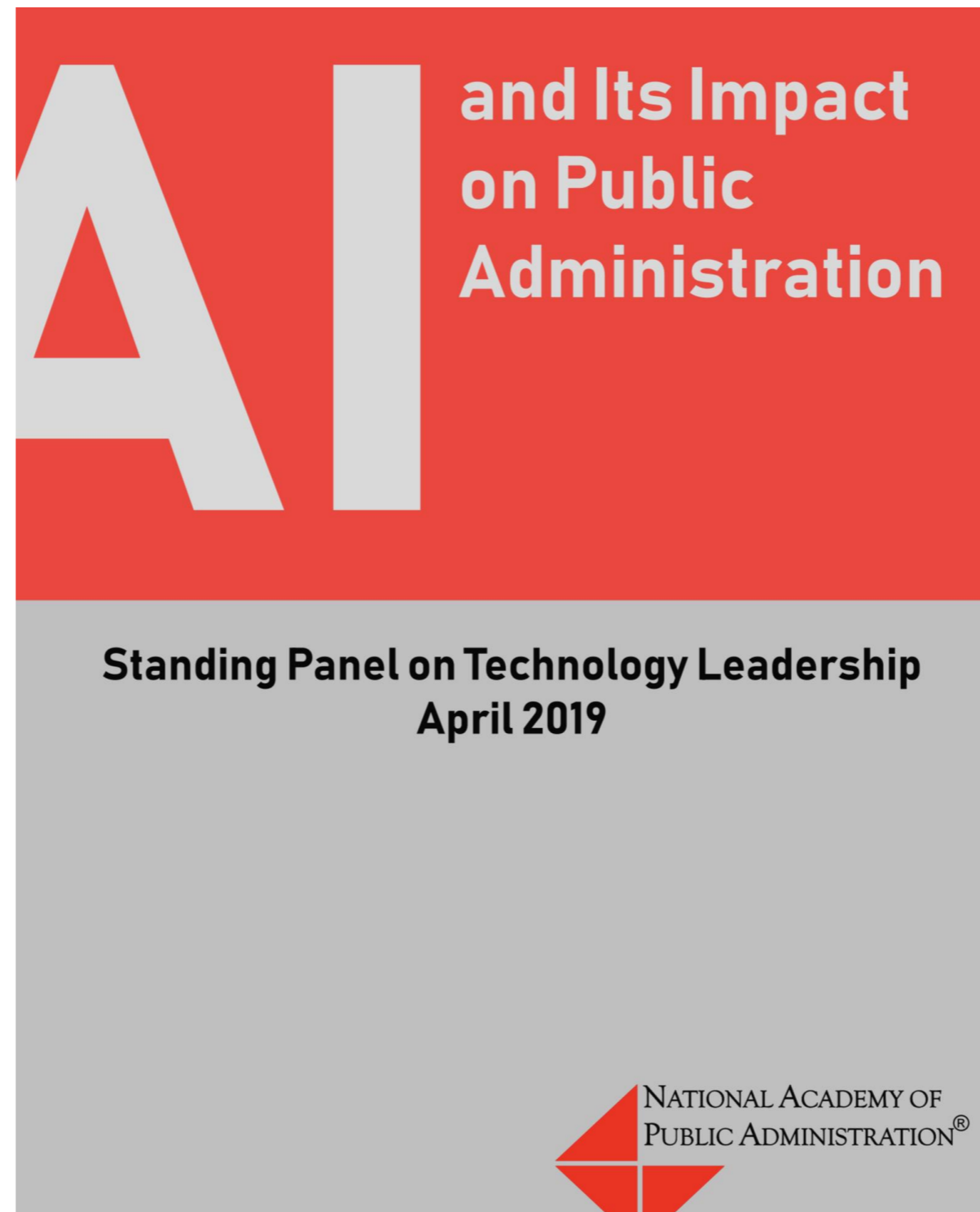


ar·ti·fi·cial in·tel·li·gence

noun


the theory and development of computer systems able to perform tasks that normally require human intelligence, such as visual perception, speech recognition, decision-making, and translation between languages.





AI and Its Impact
on Public
Administration

**Standing Panel on Technology Leadership
April 2019**

 NATIONAL ACADEMY OF
PUBLIC ADMINISTRATION®

Artificial Intelligence has grown because of...

1. Advancements in complex algorithms.
2. Dramatic Increase in speed and computing power.
3. Ability to digest data from various sources.
4. Ability to store and retrieve massive amounts of data.
5. Ability to “self-learn”.
6. Advancements in artificial speech and recognition.





Stage 3: Machine Consciousness



Cognitive.
Self-learning.

Stage 2: Machine Intelligence



Advanced network trained to
build ad-hoc models to learn
from custom data.

We're here

Now!

Stage 1: Machine Learning



Bots



Siri



Alexa



Cortana

User driven big data models for machine learning.

Three Stages of AI

Robotics and Artificial Intelligence



Robots.....

- Don't call in sick
- Do not join unions (yet!)
- Do not need holidays or breaks
- Can work 24/7
- Never complain
- Not bothered by repetition
- Does not put off making decisions!

Where Are We Now?

- ✓ **Machine learning is advancing**
- ✓ **Excellent augmented decision-making tool**
- ✓ **Excellent for finding patterns**
- ✓ **Excellent in data visualization**
- ✓ **Excellent in predictive analytics**
- ✓ **Excellent at Robotic Process Automation (RPA)**
- ✓ **Other?**



How Do We Program AI to.....

- **Delay a decision?**
- **Procrastinate?**
- **Negotiate?**
- **Respect and understand history and context?**
- **Respect and understand emotions?**
- **Admit fault and mistakes?**
- **Weigh all options?**
- **Request additional information?**
- **Allow human “override”?**
- **Avoid bias?**
- **Understand human values?**
- **Comprehend ethics?**
- **Be patient with humans?!**





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