#### View of Public Figures: Presidential Candidates/Celebrities

From Focus Groups to the Online Kellian Mind Explorer

#### **Results from a Three-Mode Component Analysis**

Pieter M. Kroonenberg Leiden University, The Netherlands & The Three-Mode Company

Joe Whitehurst *High Impact Technologies, Atlanta* 

Joel Gardi, Georgia Tech Research Institute, Atlanta

# **Online Focus Group**

- This presentation is focused on the data analysis of an online focus group application: The Kellian Mind Explorer (see next slide)
- Its structure and especially its data analysis
- Application example: How do people see the present US Presidential candidates
- Data (toy example collected november 2015): *Subjects* judge *candidates* on a set of *scales*.
- "Two-mode rating scale data" from one judge
   "Three-mode rating scale data" from many judges
- A very general design to measure people's opinions. Related to Kelly's *Repertory Grids*

### George Kelly (1905 – 1967)



#### **Personal Construct Theory**

- George Kelly, *Psychology of Personal Constructs* (1955)
- Clinical Psychology and Personality: Selected papers of George Kelly, edited by Brendan Maher (1969)

# The Online Kellian Mind Exporer

Welcome to an Ex	🛎 Welcome, joewhitehurst@gmail.com 🔻			
☆ Element Rating				
Bernie Sanders	Moral		Amoral	
	Hostile		Loving	П <sub>N/A</sub>
e About	Kind		Vicious	П N/А
	Geopolitically Astute		Geopolitically Naive	I N/A
Element 5 of 17	Rigid		Flexible	N/A
• Please scroll down to view more rating sliders.	Bright		Dull	N/A
• Please adjust your	Left Leaning		Right Leaning	□ N/A
screen resolution if needed.	Wants To Eliminate Environmental Regulations		Wants More Environmental Regulations	N/A
Aantabla ta	Fast		Slow	

#### Adaptable to:

Stimulus-Response data Semantic differential research Evaluation of situations by rating scales Two-way rating data in general

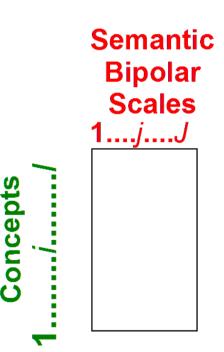
For all questions please contact: Joe Whitehurst JoeWhitehurst@gmail.com



### **Data Structure from One Judge**

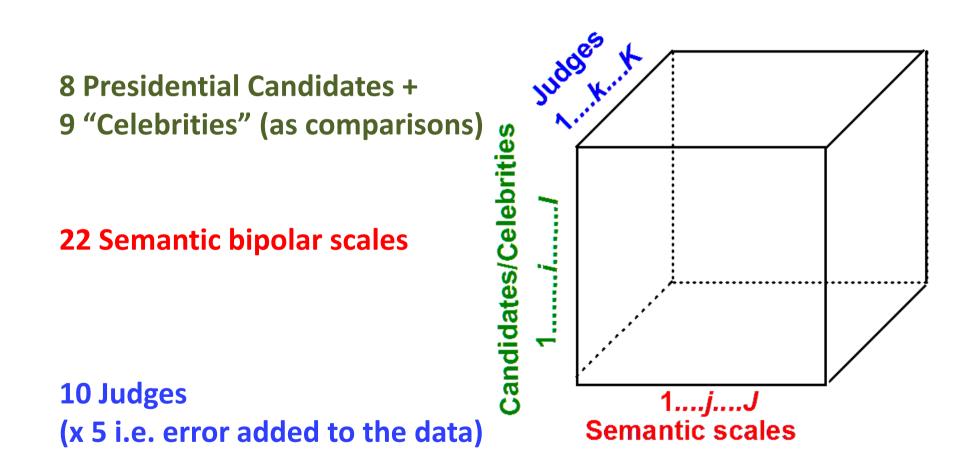
Scales are of the type: Bipolar: Bad versus Good; Semantic: Characterised in words

My Life Bad ----- Good -10 0 +10



**Example:** 

#### The Test Data



### **Presidential Candidates/"Celebrities"**

Presidential Candidates	Abbre- viation	Gen -der	Par- ty	"Celebrities"	Abbre- viation	Gen- der
Donald Trump	Trump	Μ	R	Beelzebub	Devil	Μ
Jeb Bush	JBush	Μ	R	Jesus Christ	Christ	Μ
Ben Carson	Carson	Μ	R	Adolf Hitler	Hitler	Μ
Marco Rubio	Rubio	Μ	R	Abraham Lincoln	Lincln	Μ
Ted Cruz	Cruz	Μ	R	Golda Meir	Meir	F
Carly Fiorina	Fiorna	F	R	Eleanor Roosevelt	Rsvelt	F
				Margaret Thatcher	Thatch	F
<b>Bernie Sanders</b>	Sandrs	Μ	D	Susan Anthony	Anthny	F
Hillary Clinton	Clintn	F	D	Rosa Parks	Parks	F

M=male; F=Female; R=Republican; D=Democrat

Data collection: November 2015

# Less Known "Celebrities"

- **Susan Anthony:** an American social reformer and feminist; played a pivotal role in the women's suffrage movement. Collected anti-slavery petitions at the age of 17.
- **Rosa Parks**: an American civil rights activist, "the first lady of civil rights" and "the mother of the freedom movement". Played a leading role in the Montgomery bus boycott
- **Golda Meir:** an Israeli teacher, kibbutznik, stateswoman and politician and Prime Minister of Israel
- Margaret Thatcher: a British stateswoman and politician; Prime Minister of the United Kingdom from 1979 to 1990. The Iron Lady.
- Eleanor Roosevelt: American politician, diplomat, and activist. Longest-serving First Lady of the US.

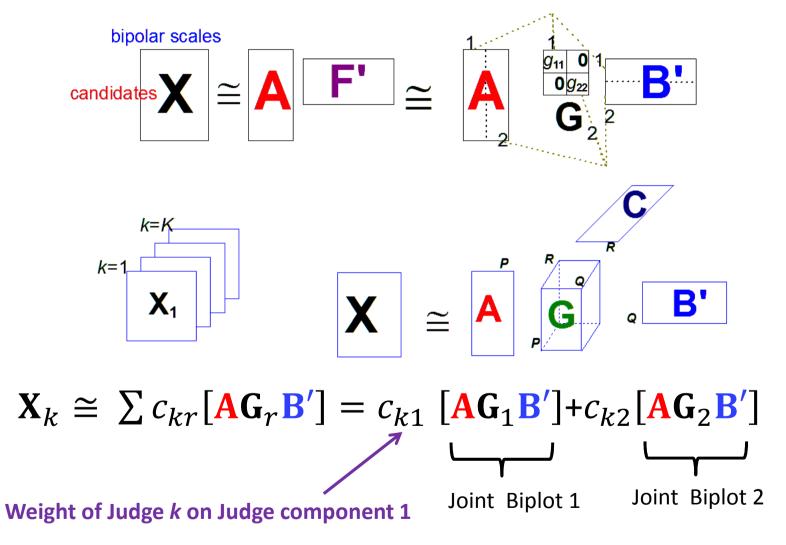
# **Bipolar Semantic Scales - 1**

Negative scale anchor		Positive scale anchor	Abbr.
-130 to -1	0	1 to 130	
Moral		Amoral	Amoral
Hostile		Loving	Loving
Kind		Vicious	Viciou
Geopolitically astute		Geopolitically naive	GeoNai
Rigid		Flexible	Flexbl
Bright		Dull	Dull
Left Leaning		Right Leaning	Right
Wants to eliminate		Wants more environmental	Envrnm
environmental regulations		regulations	
Fast		Slow	Slow
Bold		Cowardly	Coward

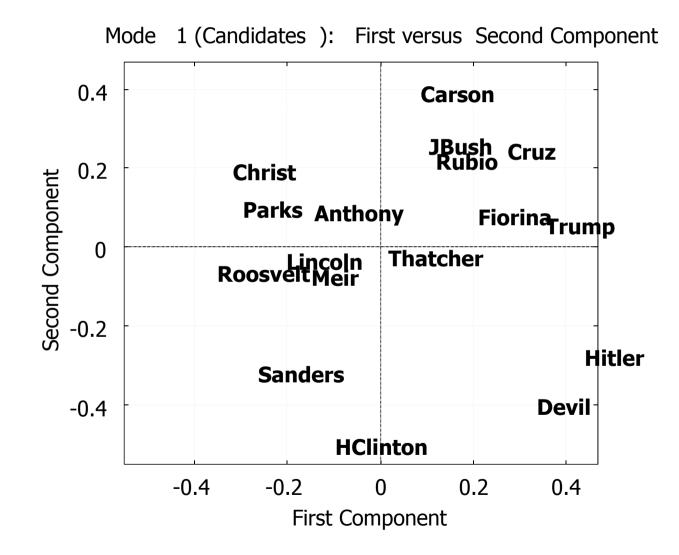
# **Bipolar Semantic Scales - 2**

Negative scale anchor		Positive scale anchor	Abbr.
-130 to -1	0	1 to 130	
For increased spending		For cutting spending women's	NoHealth
women's healthcare		healthcare	
Advanced		Backward	Backwr
Sophisticated		Naive	Naive
Opportunist		Principled	Prncpl
Aggressive		Passive	Passiv
Financially literate		Financially ignorant	NoFina
Humans are causing climate		Humans have no effect on	NoClim
change		climate change	
Evil		Good	Good
Peace loving		War mongering	ProWar
Condemning		Forgiving	Forgiv
Arrogant		Humble	Humble
Uniter		Divider	Dividr 10

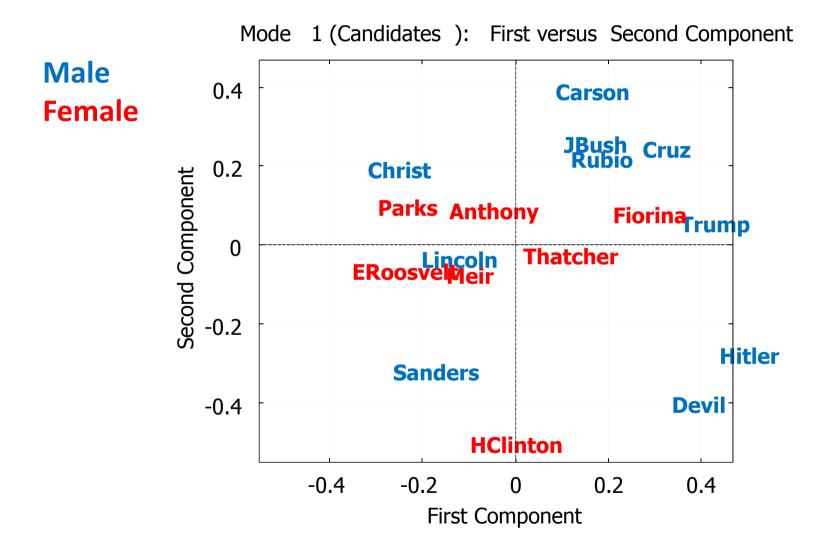
### **Analysis: Three-Mode PCA**



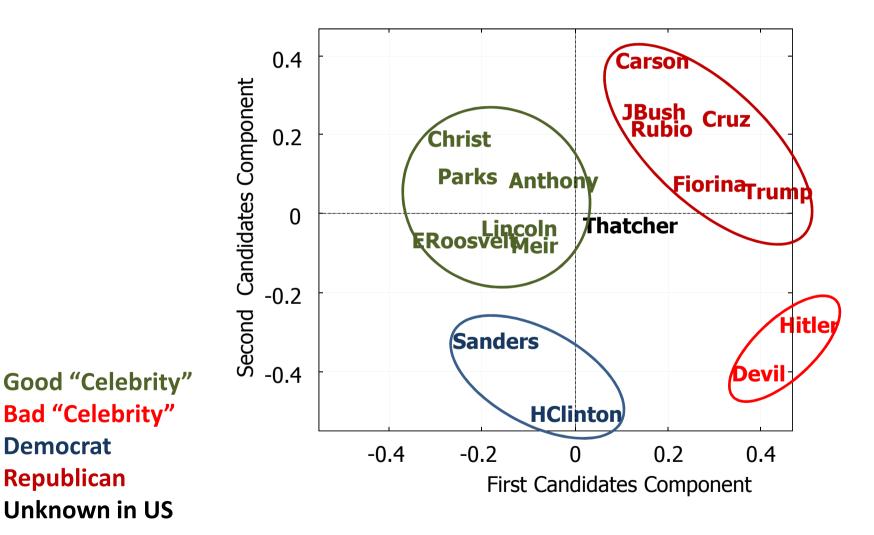
#### **Presidential Candidates/Celebrities**



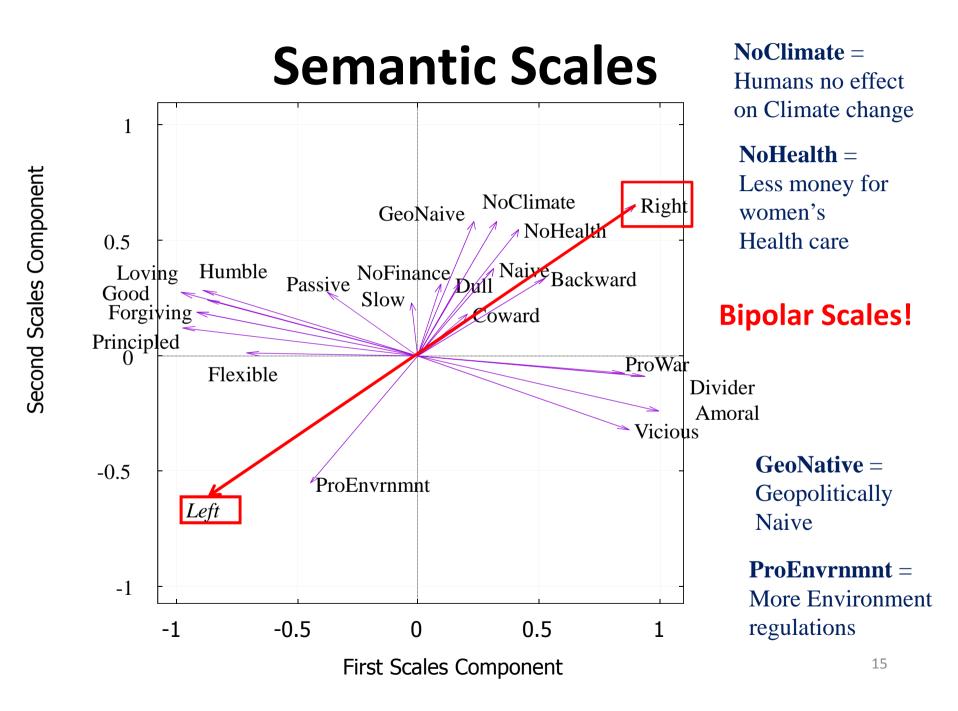
#### **Presidential Candidates/ "Celebrities"**

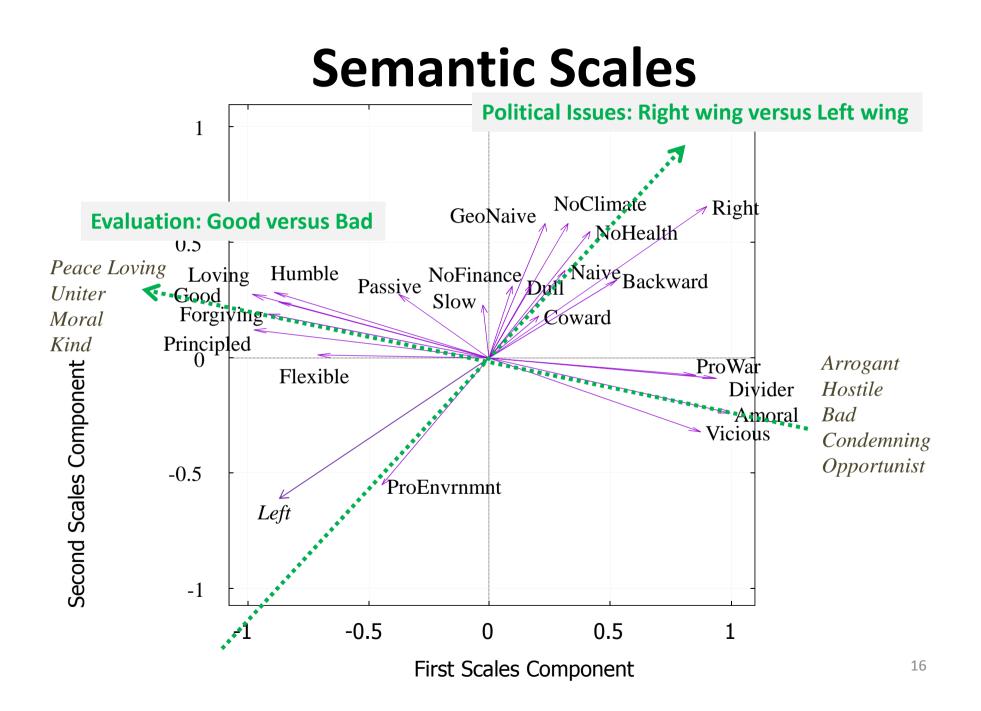


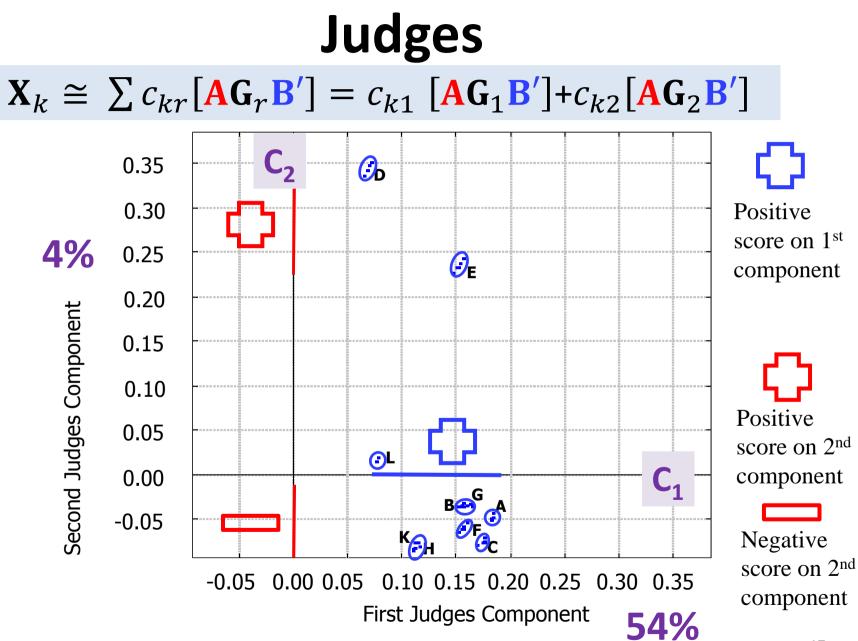
#### **Presidential Candidates/ "Celebrities"**



**Democrat** 

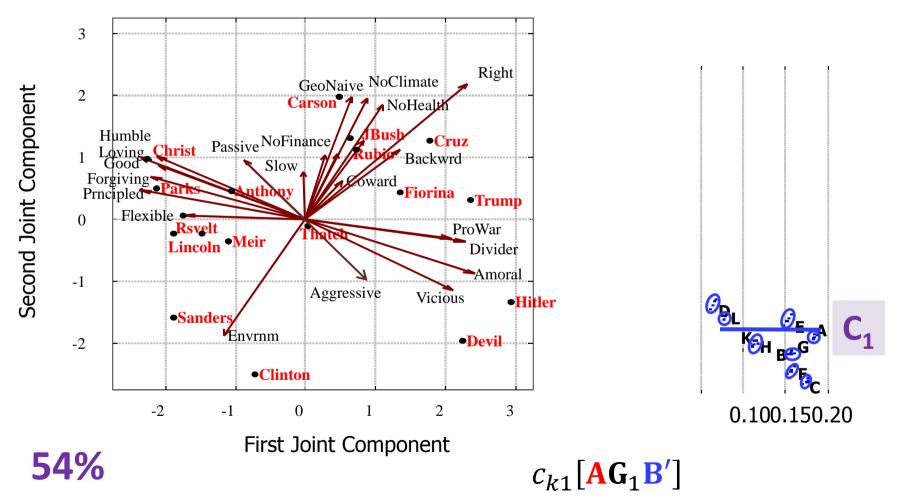




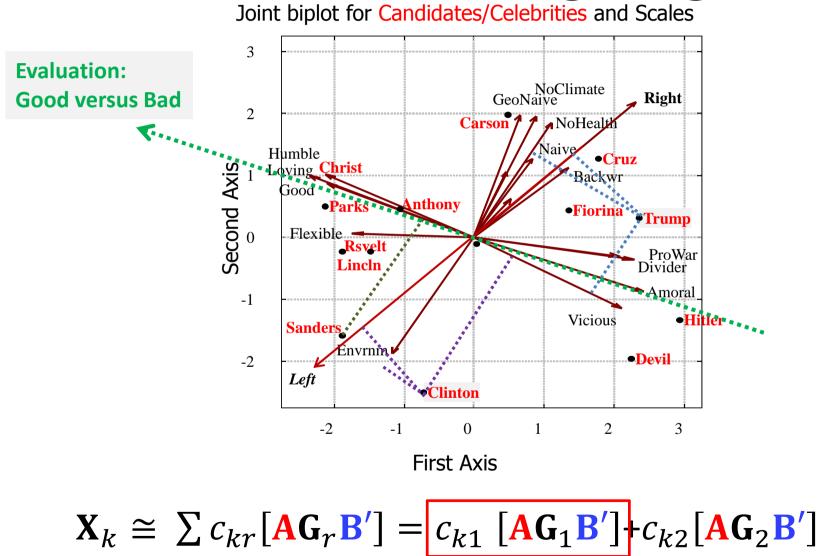


### **Consensus among Judges**

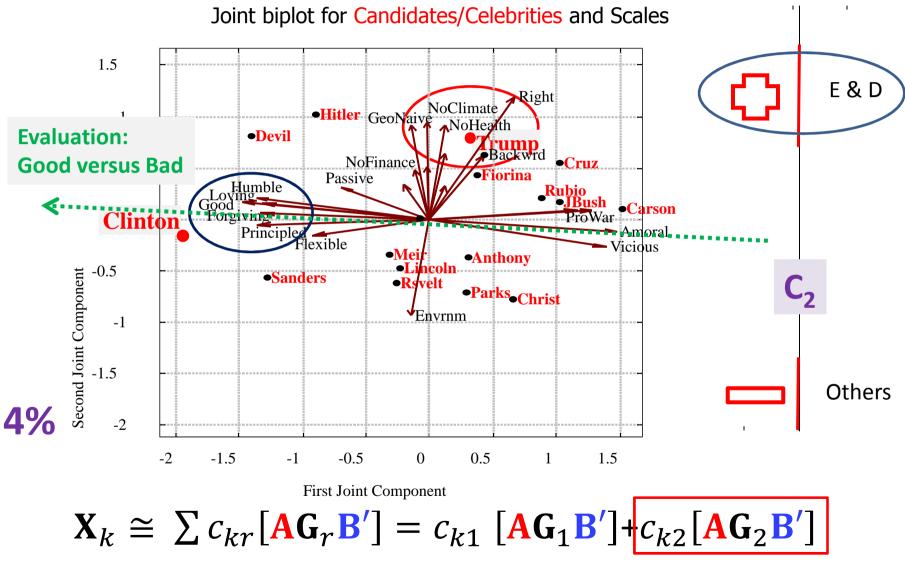
Joint biplot for Candidates/Celebrities and Scales for **First** *Consensus* **Component of Judges** 



#### **Consensus among Judges**



#### Individual differences between Judges



#### Focus group or OnLine Kellian Mind Explorer?

- Which method gets the best and most information at the lowest cost in the shortest time? Focus groups costs around \$6000
- Which method provides the highest reliability, validity, and representativeness of the scores?
- Which method will be **most acceptable** to the participants?
- How to make the candidates/subsiders and participants understand the results?

