



## 3rd SOCIAL SERVICE RESEARCH NETWORK (SSRN) "Transforming Research into Solutions"

Tuesday, 16 February 2016 Lecture Theatre, Level 2 Lifelong Learning Institute



## **Getting Insights from Data**

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Chairman SAS User Group

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Operations Director SAS User Group









### HOW TO USE DATA EFFECTIVELY

ERIC SANDOSHAM & TAN POH CHOO SAS USER GROUP 2016



#### SAS USER GROUP | WHO WE ARE



 SAS User Group (Singapore) is an independent, volunteer organization run by SAS users

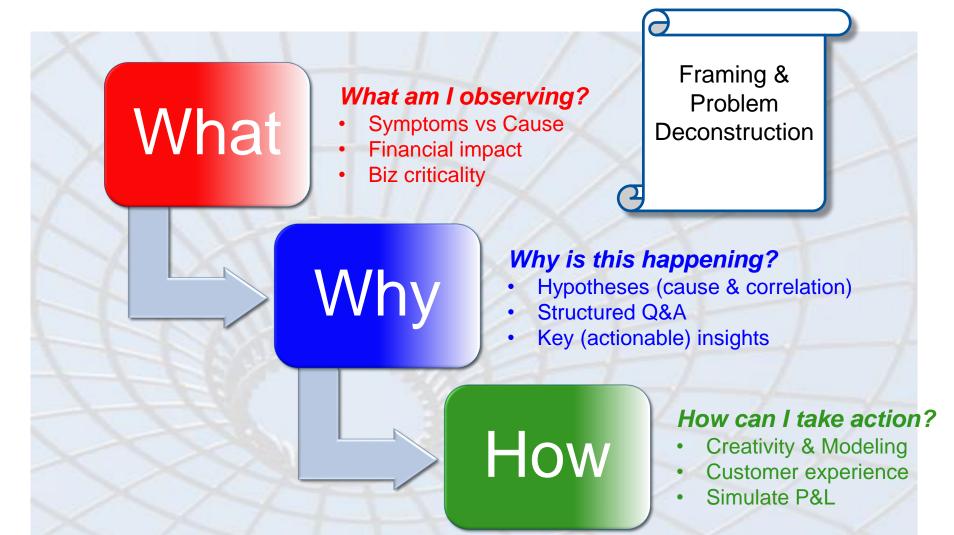
 It provides a platform for users to meet, share knowledge and experience, and learn more about SAS solutions from colleagues, peers and

professionals



# Don't focus on the data! Always start with the problem.





# Recognise the problem. Apply the right technique!



# Deviation Problems

# Anticipation Problems

# Allocation Problems

## Monitor

- Quality Control Sampling
- Regression Trending

## Predict

- Forecasting
- Correlating

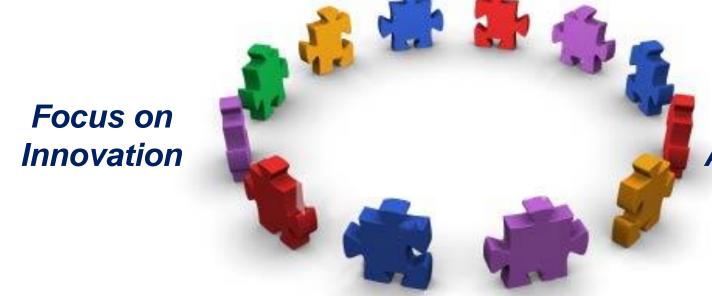
## Assign

- Matching
- Scheduling
- Queuing
- Routing

# The team's the key! Secret sauce in Analytics powerhouse



### Business-Embedded Function



Authority & Accountability

Strong P&L Foundation



### LEVERAGING ANALYTICS IN SOCIAL SERVICES

TAN POH CHOO



## What If...





We can identify shelters with the most critical health risks

We can uncover shelters experiencing a dangerous mix of overcrowding, unsafe drinking water and solid waste disposal problems









## What If...









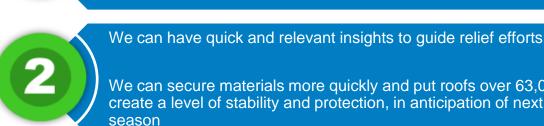
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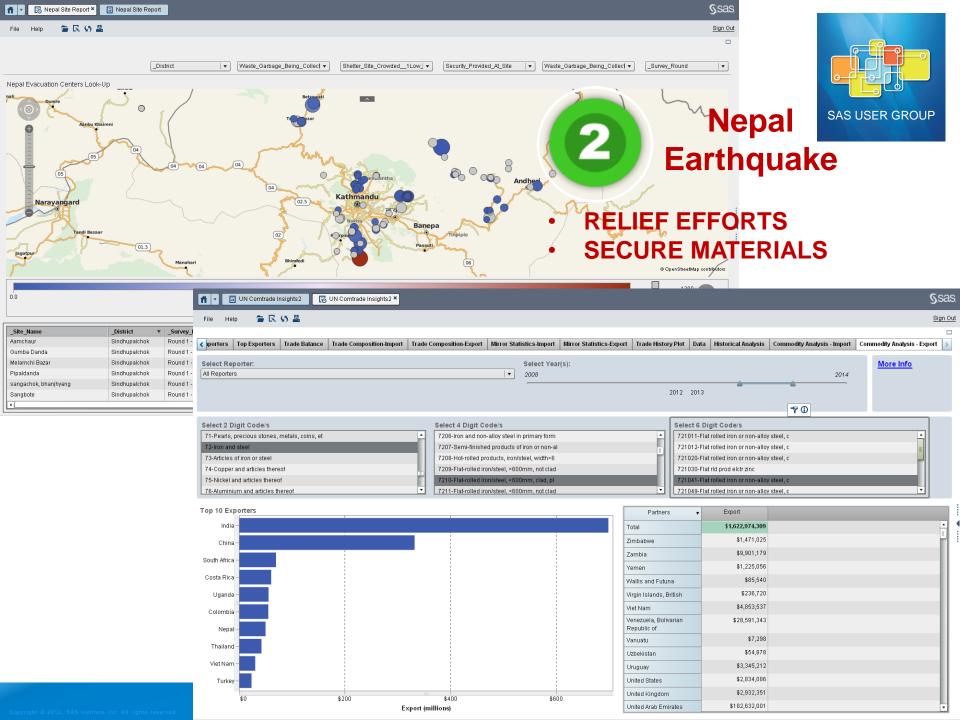
We can uncover shelters experiencing a dangerous mix of overcrowding, unsafe drinking water and solid waste disposal problems

We can secure materials more quickly and put roofs over 63,000 families to create a level of stability and protection, in anticipation of next monsoon









## What If...





Money Fund

GOT
HEART

THE STRAITS TIMES



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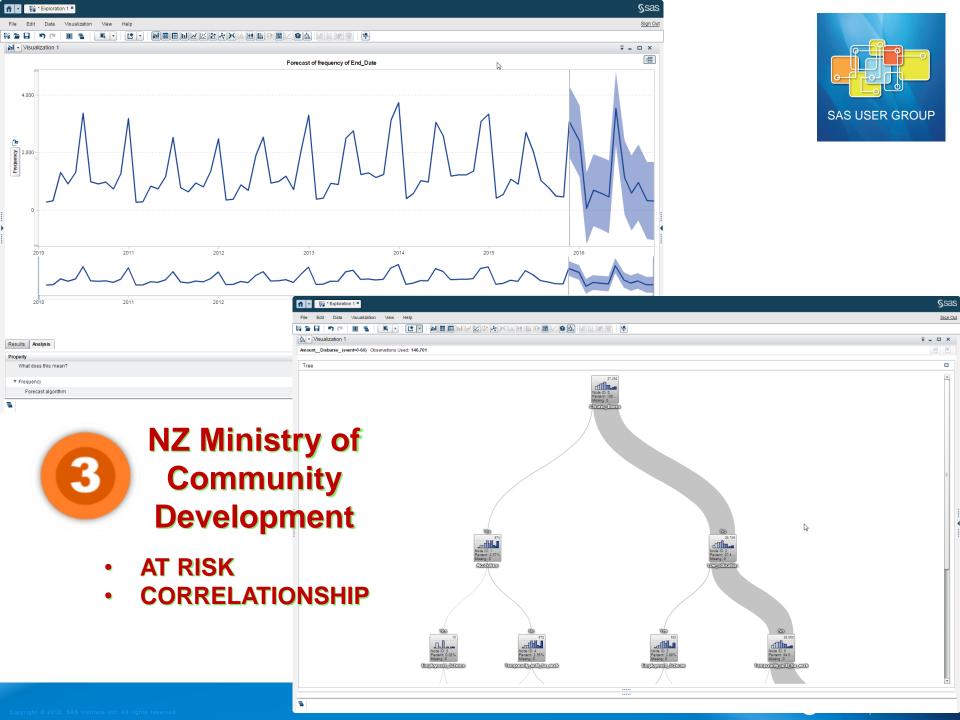
We can have quick and relevant insights to guide relief efforts

We can secure materials more quickly and put roofs over 63,000 families to create a level of stability and protection, in anticipation of next monsoon season

We are able to identify who are most at risk (delinquency, committing crimes, etc.)

We are able to analyse the relationship between historical background and later outcomes





## What If...









We can identify shelters with the most critical health risks

We can uncover shelters experiencing a dangerous mix of overcrowding, unsafe drinking water and solid waste disposal problems

We can have quick and relevant insights to guide relief efforts

We can secure materials more quickly and put roofs over 63,000 families to create a level of stability and protection, in anticipation of next monsoon season

We are able to identify who are most at risk (delinquency, committing crimes, etc.)

We are able to analyse the relationship between historical background and later outcomes

We can understand the demographics of the beneficiaries that need greater support

We can explore factors contributing to the time taken to complete assistance, with possible implications on policy

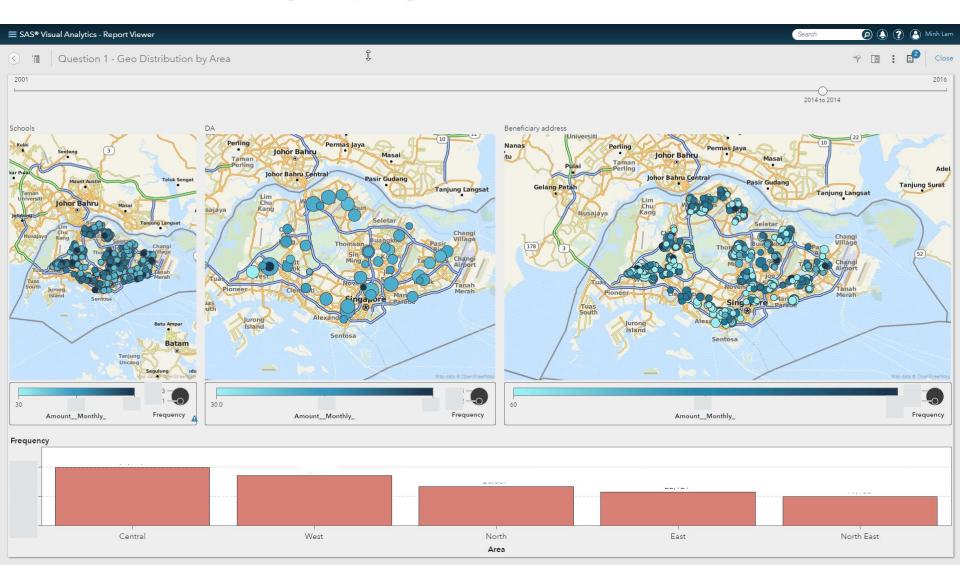




### NCSS - SPMF

- Geographical distribution of cases
- Income grouping breakdown







### NCSS - SPMF

- Home ownership status
- Housing estates breakdown

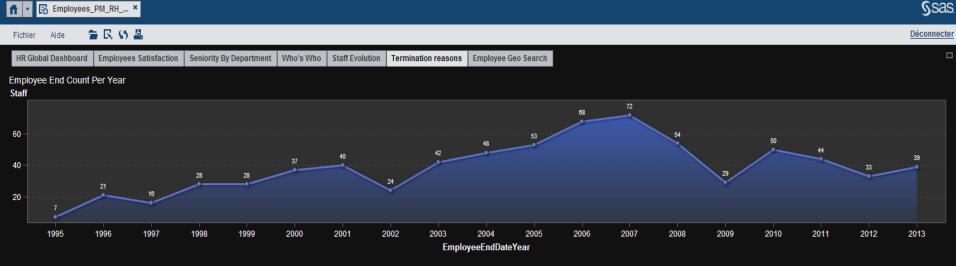






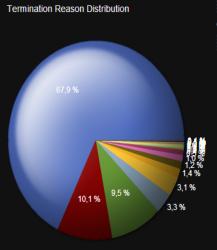
### Manpower/Staffing/Volunteer Analysis

- Demographic factors and retention
- Demographic factors and type of volunteer work



Active Sta	EmployeeFirst	EmployeeLast	EmployeeGe	Empl ▼	Employee Start	EmployeeEndD	ResignReasonLabel	
Active	Gene	Kelly	Male	28	01/09/1985			_
Active	Melanie	Couture	Female	28	25/02/1985			
Retired	Robert	Mitchum	Male	27	01/01/1984	17/10/2011	D - Mutual Agreement	
Active	Marc-Antoine	Audette	Male	27	03/07/1986			ш
Active	Vivien	Leigh	Male	27	18/08/1986			
Active	Alexandra	Rott	Female	27	01/03/1986			Ш
Active	Alexia	Grun	Female	25	01/10/1988			
Active	Shirley	Temple	Female	25	07/11/1988			ш
Active	Joan	Crawford	Female	25	05/10/1988			
Active	Jean-Claude	Gelinas	Male	25	01/11/1988			ш
Retired	Korine	Côte	Female	24	01/10/1986	03/04/2010	D - Dismissal - Perf	
Active	Mario	Jean	Male	24	06/09/1989			ш
Active	Jean-Marie	Corbeil	Male	24	23/10/1989			
Retired	Normand	Chouinard	Male	24	14/09/1987	28/04/2011	D - Dismissal - Perf	
Active	Ghislaine	Panini	Female	24	22/05/1989			·

ResignReasonLabel	Fréquence	
	716	
Contract ended	100	П
D - Dismissal - Performance	35	
D - Dismissal - Probation	15	
D - Health reasons	1	
D - Mutual Agreement	33	
D - Redundancy	4	П
Dismissal	2	
O - Temporary Contract ended	5	П
Organizational	1	П
R - Accepted other offer - Career	107	П
R - Accepted other offer - Financial	2	Н
R - Become independant consultant	2	
R - Mutual Agreement	11	
R - Non return from maternity	1	Ц
D _ Parennal _ Family reasons	2	•



SAS USER GROUP



THANK YOU.







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