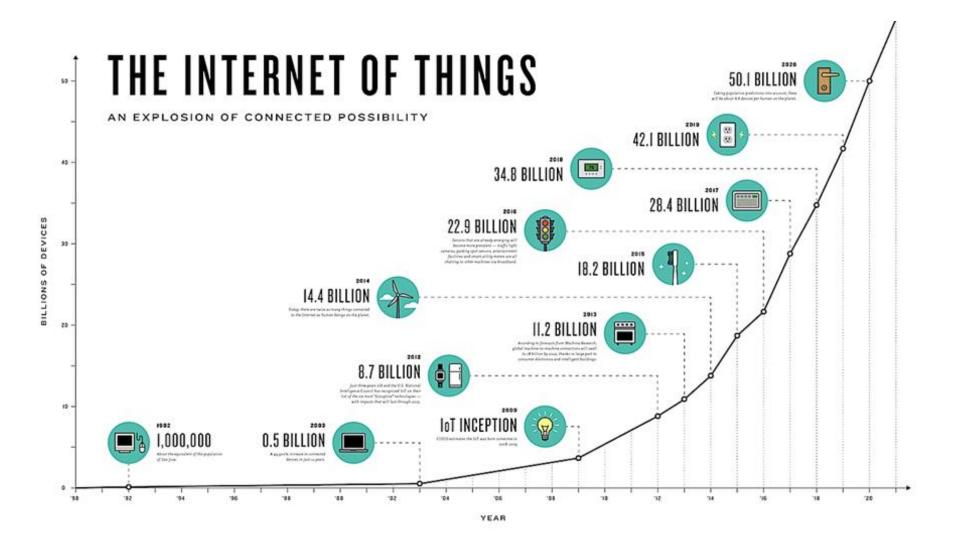
The Complexity Challenge IRM Industry Workshop

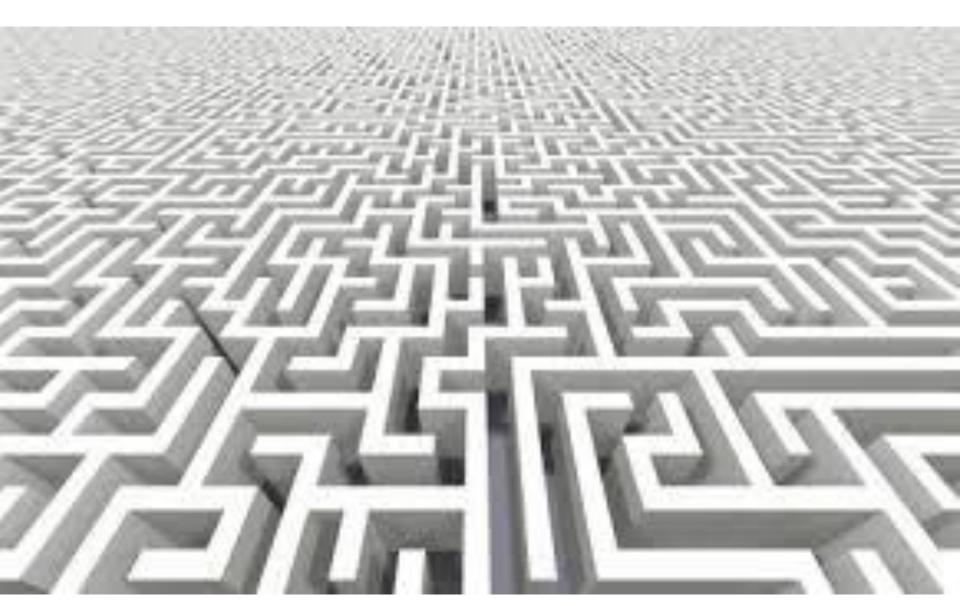
Jonathan Crone MBA BScHons RICS FAPM

At last (?), a changing World!

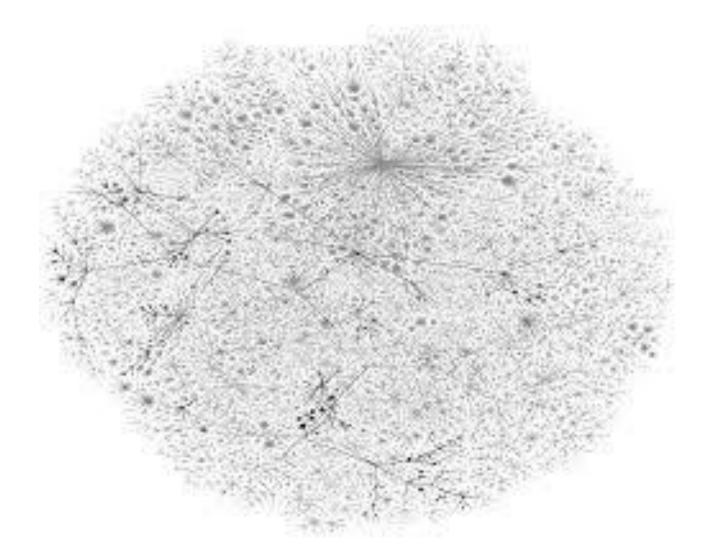
Data volumes increasing exponentially



Complexity is increasing



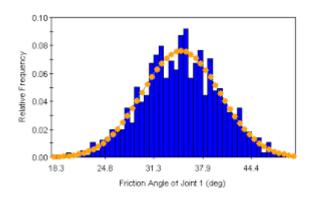
So where does the risk lie in this complex network?



Without help, the PM will need super powers



Traditional Risk Approach

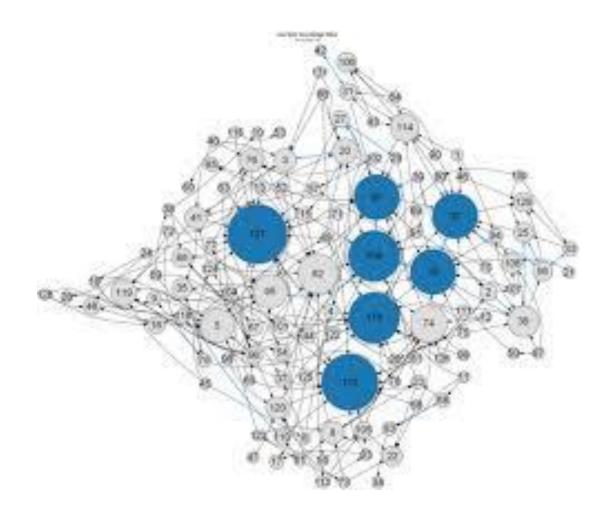


- Statistical analysis based on estimated probability and impact
- Often ignored when it's a 'difficult message'
- Based on 'identified' risks

- Risk log identifies known risks
- Good for tracking mitigations and residual risk
- Production can bring team together
- Role of Risk Manager can be mis-understood

						Risk assessm	ent]	
.р.	The main of risks	Owner of risk	Reason/cause	Effect	Probability	Impact	Level of risk	Risk response strategy	Cost of strateg
Designing risk									
1	Lack of acceptance by Investor of design proposals	Investor	Delays in approval	Increase in costs due to the suspension of work of the design team	5-40%	50thous500thous.	Low	Varket observation, alternative designing solutions	0
2	Delays and difficulties in obtaining opinions and permits	Investor	Delay of designing work, unknown scope of design	Disturbed designing process	5-40%	500thous2millons	Medium	Earlier diagnosis of the situation in local authorities offices, organization of meetings preceding designing process	50thous.
3	Conflict among designing team members	Designer office	insufficient flow of information among team members	Disturbed designing process	0-5%	50thous500thous.	Low	Response of a team leader to all form of conflicts - mediation in a team	15thous.
4	Too optimistic assessment of employee workload	Designer office	Approval of unrealistic deadlines for individual work	Delay of designing work	5-40%	50thous500thous.	Low	Proposing for employees to work overtime or ordering of part of work to another designing team	120thous.
5	Incorrect information from investor/lack of clear guidelines	Investor	duplicate error or detected error can generate timing	Verification of errors will increase costs and increase time due to the development of the next revision of design	40-70%	2-5 milions	High	Application to investor for extension of time to complete a design due to additional circumstances	20thous.
6	Staff do not have sufficient knowledge about the subject of design	Designer office	Errors in design	Verification of errors will increase time due to the repeated checks of designing work	5-40%	2-5 milions	Wedum	Designing team leader strengthens control over work, providing for employees consultation with an experi	65thous.
lim	ne risk								
7	deadlines in contract	Designer office		Deterioration of design quality of failure to meet the deadline	40-70%	2-5 milions	High	Employment of new employees or ordering part of work to another party during a contract	105thous.
Bud	lget risk								
8	Underestimation of design budget	Investor	Budget may not be sufficient to carry out designing tasks	Deterioration of design quality	40-70%	2-5 millons	High	Limiting scope of design to necessary minimum	40thous.

But what about the hidden 'complex' risks?



We now need to look beyond the 'known'

- Assimilate the vast quantities of data
- Understand complex interdependencies
- Use analysis to focus the message
- Use history to help model tomorrow
- Create models to understand potential impacts

Today, it is possible:

1