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In the context of:

Rural South Africa (Ga-Dikgale, Limpopo Province);

- ~ 35,000 marginalised people, high levels of unemployment, regular migration in/out of the community;
- HIV prevalence antenatal women age, 2011, –
- 15-19= 7.4%
- 20-24 = 17.5%
- 25-29= 27.4%
- 30-39 = 33.6%.





At this time (around 2011) we had heard about 'complexity' but we were not at all confident about applying it in a rural space.



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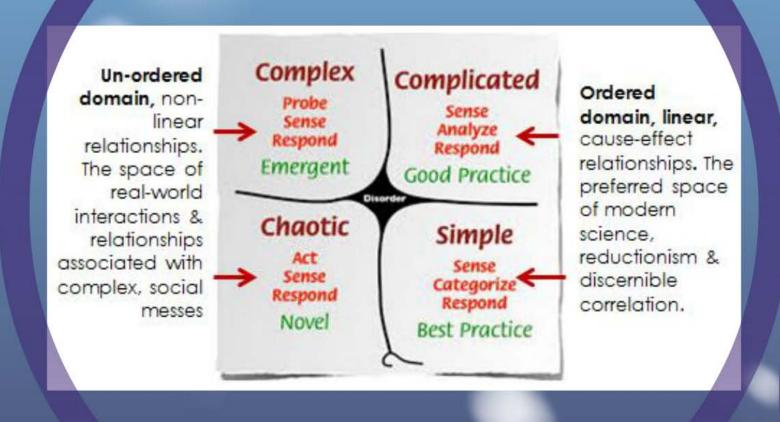
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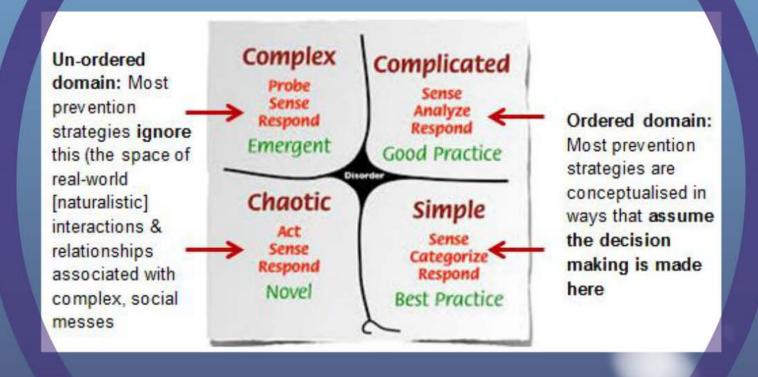
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And our assumption was that if we were to deal with / confront the un-ordered aspect of 'prevention' we needed to find out what it represented so we could better understand the properties, patterns & dynamics of the complex adaptive system.



What did we do about it?

Archetype Extraction, a technique we had learnt about via the Cognitive Edge website and a private sector consultant from Johannesburg (properties) & social network analyses (patterns)

Methodology (2)

- Ask the participants to ascribe 4 good & 4 bad human attributes to each cluster name;
- Then remove the cluster name, scatter randomly on wall and give a name that includes an adjective and a noun;
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 These are the archetypes (second phase of emergence).

Methodology: Two Phase Emergence (1)

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Then request an artist to sketch the archetypes. Which means that the

- Which means that the participants have;
 Given you stories;
- Clustered the characters in the storie and coded them in a way that makes sense to them;
- Then given you the human attribute that they associate with the structure
- And then told an artist how to draw them.

Social Network Mapping (Influence mapping, MSG stories) looking for patterns





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Methodology: Two Phase Emergence (1)

- Anecdote circle: facilitators note 'characters 'in stories; put them on post-it notes on wall & ask participants to cluster;
- Each cluster is named by the participants and the original characters are removed
- These are the ordered properties of the system.



Methodology (2)

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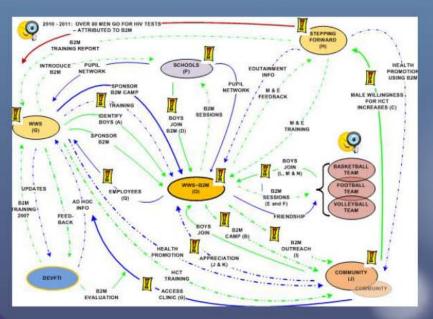
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Social Network Mapping (influence mapping, MSC stories) looking for patterns





Results - expected

- The archetype extraction process gave us insights into the un-ordered & ordered properties and the
- Social network gave us some patterns of interactions in the complex adaptive system

One of the more powerful images was this one



The topics that emerged included:
Mental health, hopelessness, stigma [non]-adherence, testing, traditional imodern health practices, witchcraft, fake medicine sellers, community strengths f's support, male circumcision (initiation ceremonies): teenage pregnancy, alcohol & substance abuse, school trauncy, selling / use of body parts for medication, lack of government support:

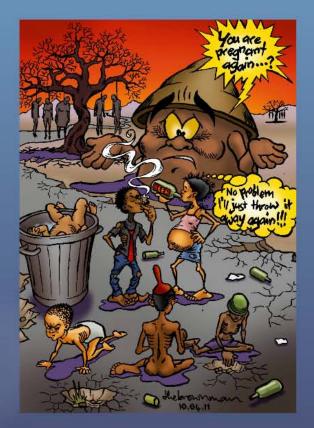
support;
- Almost 50% of the un-ordered issues were things we can work with



SNA gave patterns of treatment seeking behaviour



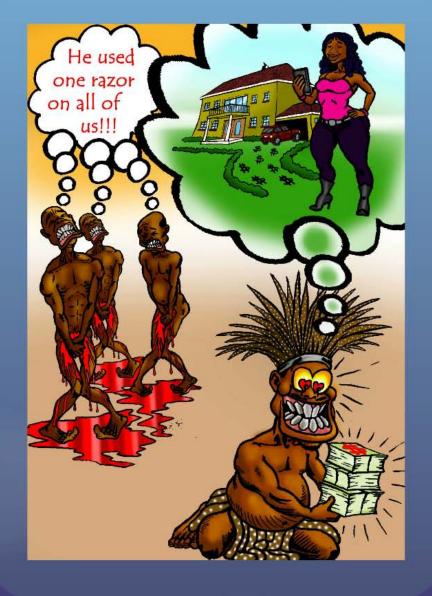
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The topics that emerged included: Mental health, hopelessness, stigma, [non]-adherence, testing, traditional / modern health practices, witchcraft, fake medicine sellers, community strengths / support, male circumcision (initiation ceremonies); teenage pregnancy, alcohol & substance abuse, school trauncy, selling / use of body parts for medication, lack of government support;

 Almost 50% of the un-ordered issues were things we can work with.





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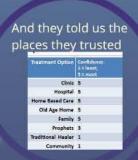


Un-expected Results

- Relationships with people changed (they were very honest about things that were harder to reach before);
- But the dynamics of the system eluded us.

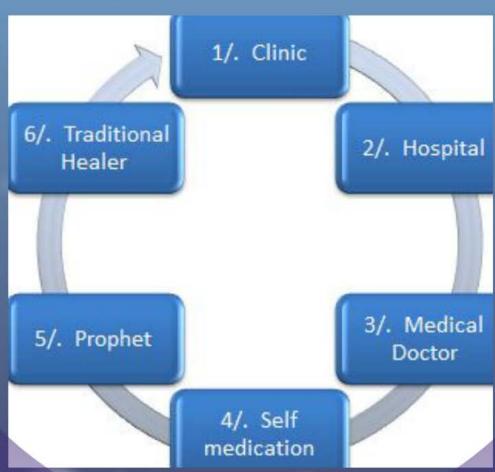


But the dynamics of the system were still elusive





They told us what they should do -





And they told us the places they trusted

100	
Treatment Option	Confidence: 1 = least; 5 = most
Clinic	5
Hospital	5
Home Based Care	5
Old Age Home	5
Family	5
Prophets	3
Traditional Healer	1
Community	1





But the dynamics of the system were still elusive



What did we do about the dynamics?

- We realised that we were part of the complex adaptive system';
- And that all of us (researchers and participants) were framing the health challenge in silos and not through an interdependent process of developing skill-sets for managing health.
- What sort of competencies / mind-sets were required?
- Distributed cognition / ideas come together that enable both deductive and inductive processes to coalesce.

Continued the community dialogue and began to reconceptualise our own blases;
 Stopped analysing the complex adaptive system (because it is like 'chasing a rainbow');
 And moved from aiming for 'self'-

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Dynamics:

We realised we were locked into in a 'path dependent' trajectory (named and the now discredited ABC approach to HIV

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Dynamics?

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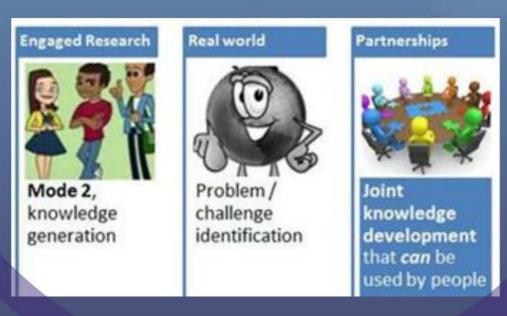
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- Self-efficacy
- That includ
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 - And will im safe-fail int ordered bi managem local comr

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IN CONCLUSION

- We have moved from 'prevention' to "viral load management";
- Self-efficacy to "distributed-efficacy";
- That includes both ordered and un-ordered aspects of a complex adaptive system (which we are a part of) - PROPERTIES, PATTERNS & DYNAMICS;
- And will implement (2014) using community based safe-fail interventions that incorporate the ordered biological knowledge of viral load management & the un-ordered information that local communities are better able to work with than we are.

























