

Seasonal Access to Water in Kermi Village, Humla District Nepal

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Presentation Contents

- Justification for research
- Research Aims
- Methodology
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MOUNTAIN ENVIRONMENT

**Access to
Water and
Sanitation**

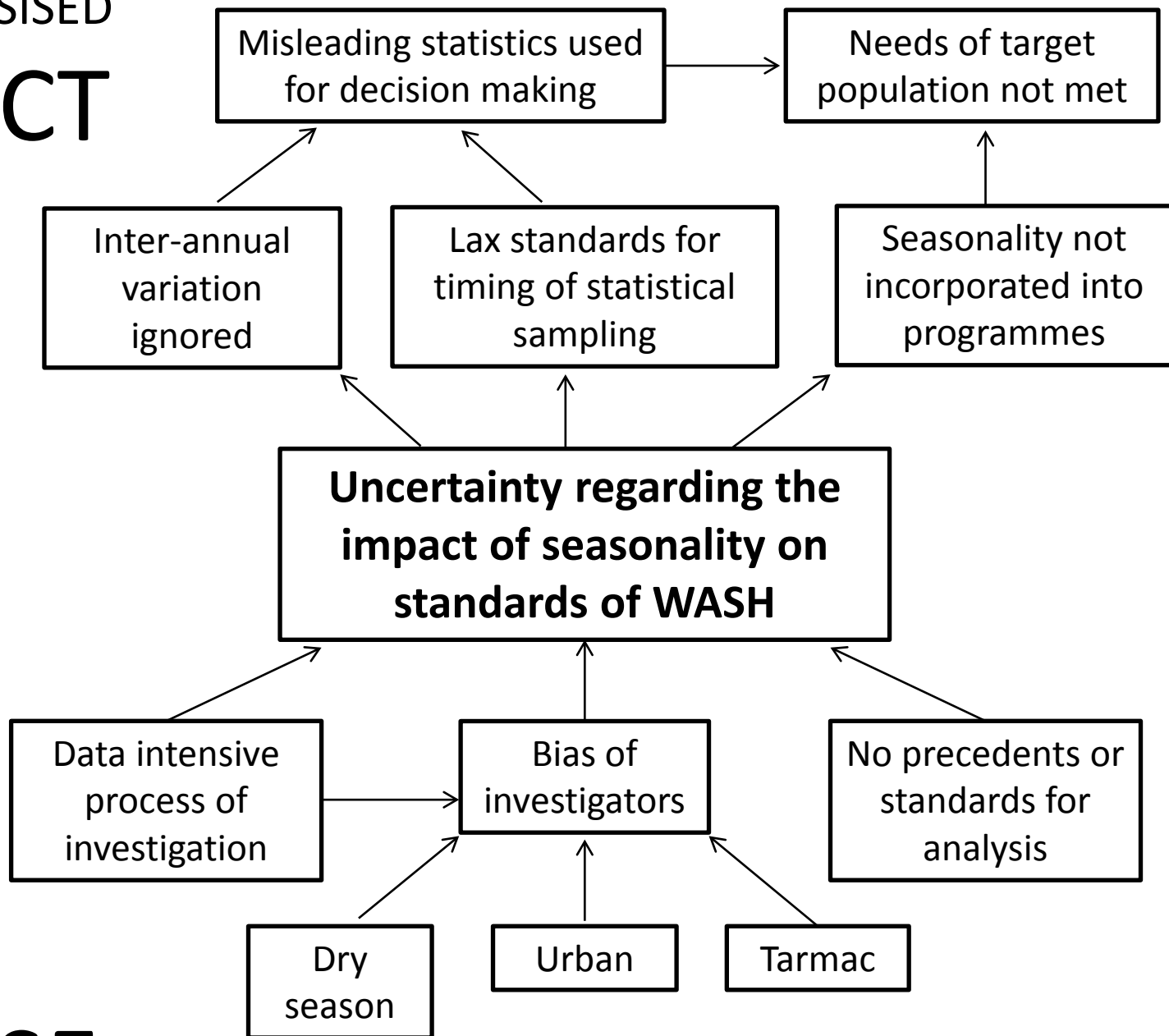
X

Climatic

Seasonality

Non - Climatic

HYPOTHESISED
EFFECT



CAUSE

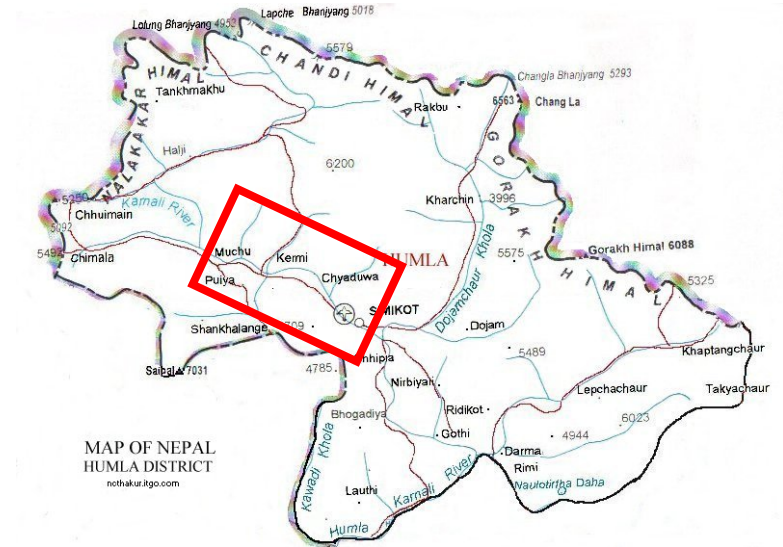
PhD Aims

TODAY

Aim 1: To investigate intra annual patterns in **standards of water and sanitation for low income communities** in mountain settings.

Aim 2 : To determine intra-annual **patterns of challenges and opportunities for improving standards** of water and sanitation in low income communities in mountain settings.

Kermi Village, Humla, Nepal



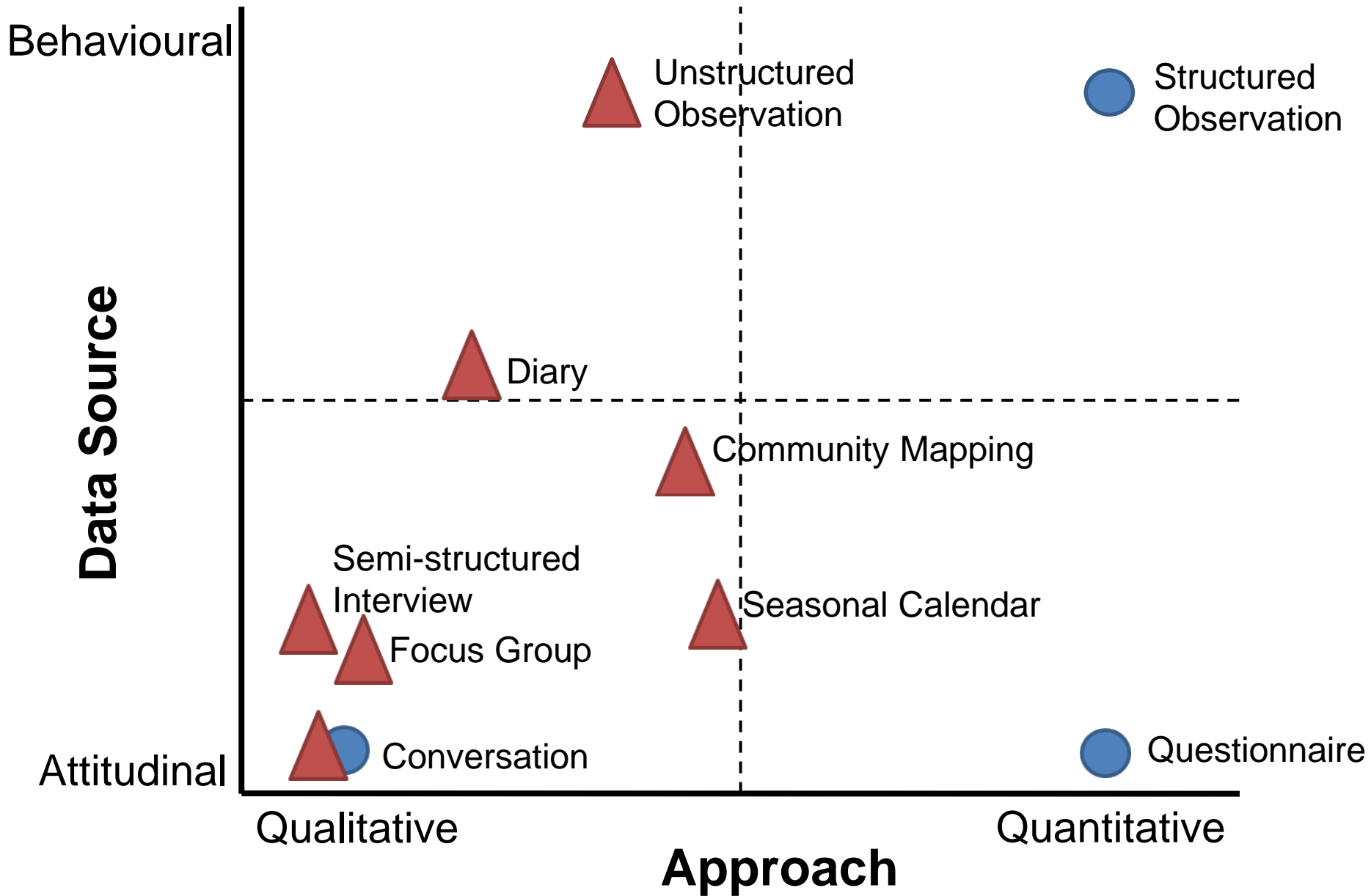
Kermi Village, Humla, Nepal

Access to Water

Government of Nepal: 64%

WaterAid: 46%







SPRING



RAINY













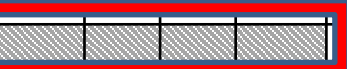


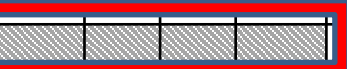















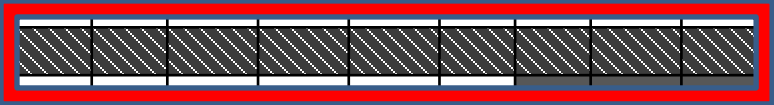
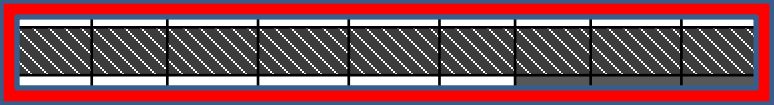
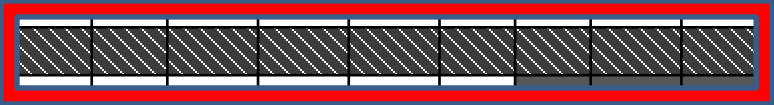
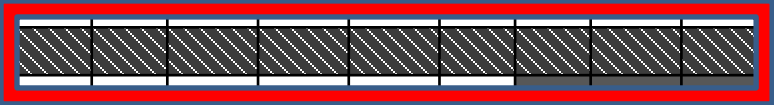
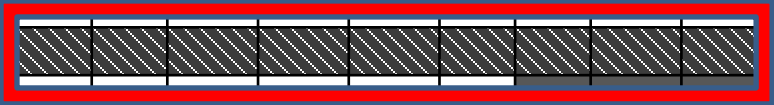
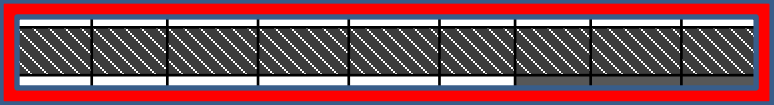
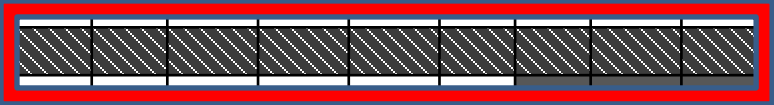
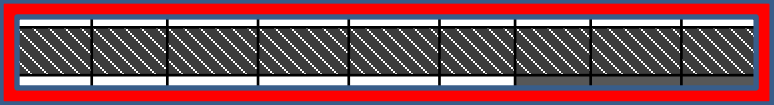
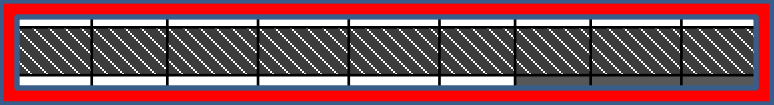
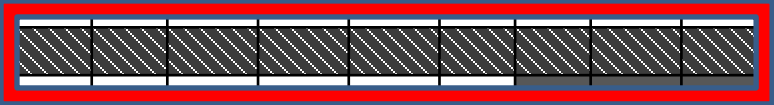













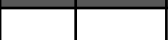
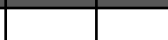















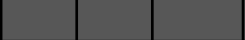











WINTER



AUTUMN

Livelihoods

Colour/Shading	Implication
	Core activity
	Regular activity
	Activity which involves leaving the home for 1 week+

Months		F	C	B	J	A	S	B	A	K	M	P	M	
Seasons		Spring			Rainy			Autumn			Winter			
ALL	Ploughing fields													
	Fertilise fields													
	Planting crops													
	Summer graze													
	Harvesting crops													
	Tending to animals													
	Collecting herbs													
	Collecting firewood													
	Praying + worshipping													
	Move south													
MALE	Trade in Talakot													
	Haymaking													
	Feed animals													
	India for wooden bowl													
	Build homes in Simkot													
	Play cards													
FEMALE	Cooking													
	Cleaning													
	Minding children													
	De-stoning fields													
	Make flour in mill													
	Irrigation													
	Make blanket													

SPRING

RAINY



INFRASTRUCTURE



WINTER

AUTUMN

SPRING

- Slippery with snow
- Extremely low quantity
- Shortages for irrigation

RAINY

In the spring season the main water resource can sometimes dry out and then there is very little water”.

WINTER

AUTUMN

SPRING

- Slippery with snow
- Extremely low quantity
- Shortages for irrigation

RAINY

- Very slippery after rain
- Landslides sweep tanks away
- Sand in water
- Many people away

***“In rainy season the way
becomes muddy and it creates
difficult walking conditions”***

WINTER

AUTUMN

SPRING

- Slippery with snow
- Extremely low quantity
- Shortages for irrigation

RAINY

- Very slippery after rain
- Landslides sweep tanks away
- Sand in water
- Many people away

Autumn time is difficult to collect water as so many people are in the village during harvest time

- No time to collect water
- Tanks block with leaves/debris

WINTER

AUTUMN

SPRING

- Extremely low quantity
- Shortages for irrigation



- Very slippery with snow
- Hard to climb steep slopes
- Pipes/tanks frozen
- All animals and people home

WINTER

RAINY

- Very slippery after rain
- Landslides sweep tanks away
- Sand in water
- Many people away

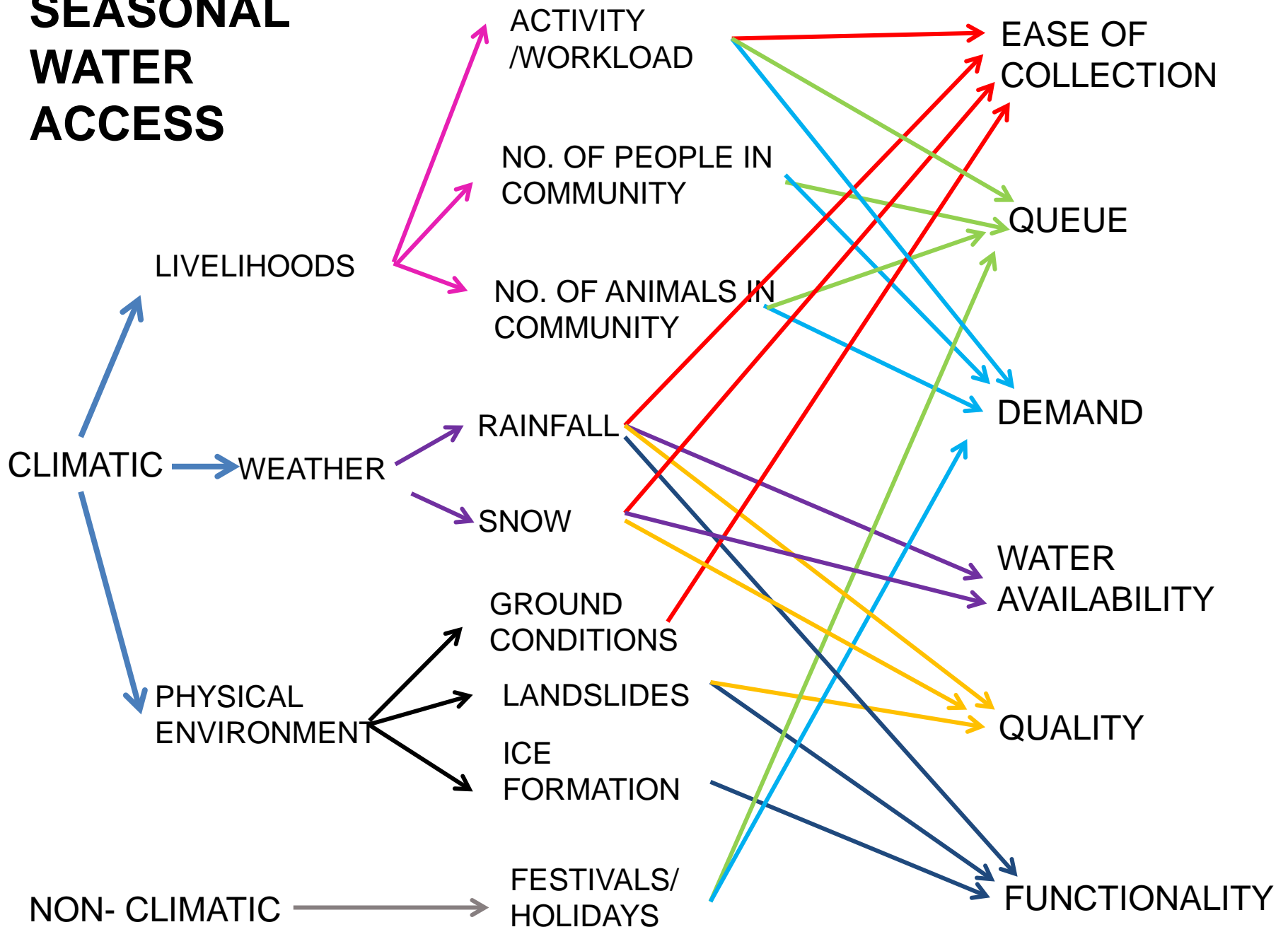
- No time to collect water
- Tanks block with leaves/debris

AUTUMN

Seasonal Water Access

Household Water Kermi				
Seasons	Spring	Summer/Rainy	Autumn	Winter
Source:	Tap (16)			
Back up:	Hot springs (5)			
Collection -difficulties	Snow (5)		Slippery with rain (5)	Slippery with snow (5)
			Too busy with work (6)	
Quantity	Very Low (6)	Very high (5)	Acceptable (2)	Low (5)
Demand	High – all people and animals in village (7)		Lower – many people gone to grazing lands and/or China (6)	High – all people home for harvest (7)
Queue	Highest (4)	Highest (6)	Acceptable (2)	High (2)
Quality	White soapy colour (3)			
	Fine all year (4)			
Treatment				Mostly drinking boiled (4)
	Never treating (12)			
Infrastructure problems	Dry (2)		Tank/pipe blocked with leaves(6)	Tap/pipe frozen (5)
	Taps far from home (4)			
	Upper taps fail most often and lower taps must be used (4)			
	Tap left running 24 hours (2)			

SEASONAL WATER ACCESS



So What?

In Kermi, access to water varies during the year as a result of **livelihoods, weather** and its impact on the **physical environment**

- This case study raises issues of:
 - Best practice data collection in areas with highly seasonal climate
 - Confidence attributed to data from areas with highly seasonal climates
 - Degree with which ‘snapshot’ data is relied upon for decision making in project implementation

Recommendation: Date is stated when reporting access to water



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Developing
knowledge and capacity
in water and sanitation