


City Centre Sustainable Housing Design Competition

**Workshop 4: Indigenous Knowledge Systems**

Date: 10 April 2024  
Time: 16:00-18:00  
Venue: Online hosted by the CIB

Presenter: Jeremy Gibberd



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**Structure**

- Southern African indigenous architecture
- Common space, yards and social interaction
- Homes and traditional construction
- Evolving models
- Sustainability performance

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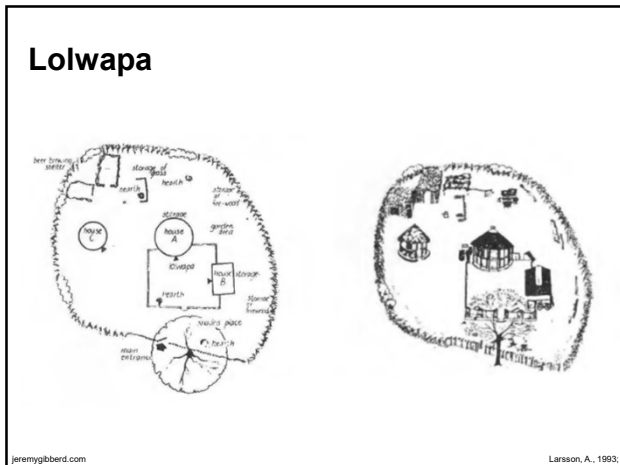
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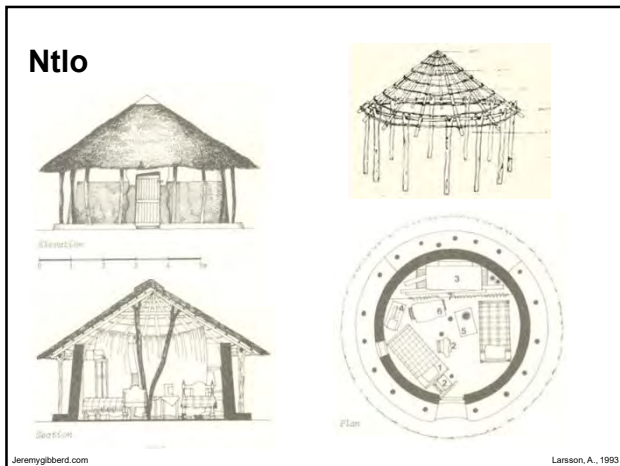
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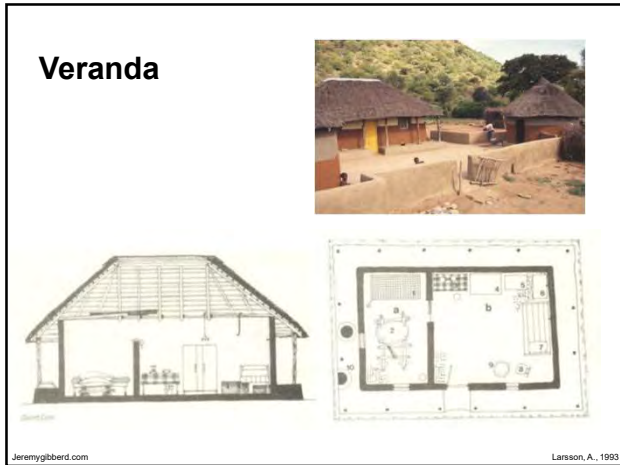
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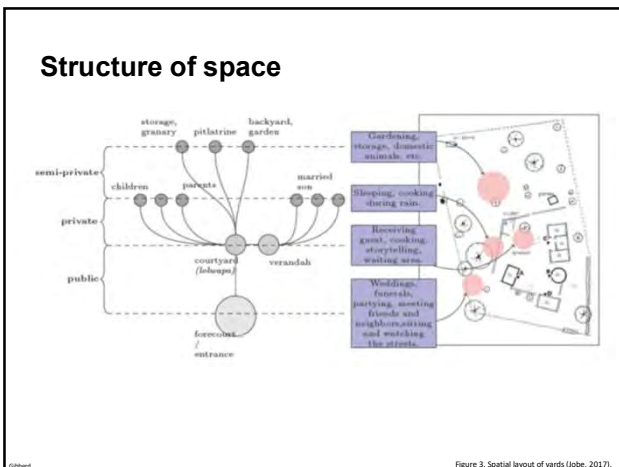
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## Densification



jeremygibberd.com

Kalabamu and Bolaane, 2013

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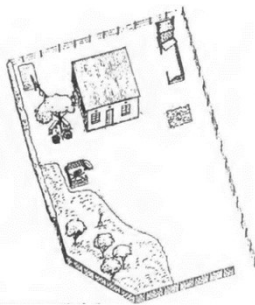
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## Material banking



jeremygibberd.com

Larsson, A., 1993, Jobe and Williams, 2016

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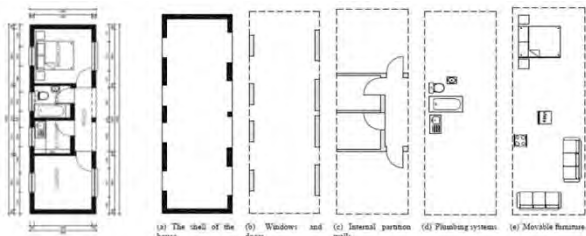
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## Shell, window, partitions, plumbing furniture



jeremygibberd.com

Larsson, A., 1993, Jobe and Williams, 2016

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### Informal modular buildings



Jeremygibberd.com

Phillipi, Gaborone

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### Sustainability performance

**Summary Table**

- \*\*\* High
- \*\* Medium
- \* Low

	Indigenous adobe construction	Indigenous stone construction	Indigenous wattle and daub construction	Indigenous timber and reed infill construction	Indigenous woven timber construction	Conventional concrete block house
Construction skills required	**	**	**	*	*	***
Maintenance requirements	**	*	**	***	***	*
Lifespan without maintenance	**	**	**	*	*	***
Climate and site responsiveness	***	**	**	***	**	**
Economic responsiveness	***	***	***	***	***	*
Environmental performance	***	***	***	***	***	*
Social performance	***	***	***	***	***	*
Compliance with building regulations	**	**	*	*	*	***
Suitability for conventional housing	**	**	*	*	*	***
Suitability for self build construction	***	***	***	***	***	*
Suitability for emergency housing	*	*	**	***	***	*

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### Thank you, Questions?

**Jeremy Gibberd**

jeremygibberd.com | <https://www.linkedin.com/in/jeremygibberd/>

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