**Telescoping into the US to analyze dynamic multi-sector hotspots and inter-sectoral linkages.**

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**Abstract**

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Google Sheet for Temp Work: <https://docs.google.com/spreadsheets/d/1HxYzOf6g8Y_wH81eNUUbniznkPPFiEqX9247wKY-hso/edit#gid=1426711730>

Github Page: <https://github.com/zarrarkhan/paperMetisUSA>

# Introduction

## Literature Review:

**Dynamic Hotspot Analysis**

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| **Study** | **Definition** | **Theme** | **Positives** | **Negatives** |
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**Hotspot Analysis**

Ed Byers [1]

<https://iopscience.iop.org/article/10.1088/1748-9326/aabf45/meta>

RAND 2016 [2]

<https://www.prgs.edu/pardee-initiative/food-energy-water/about.html>

<https://www.rand.org/pubs/tools/TL165.html>

Inas 2017 Water–food–energy nexus index: analysis of water–energy–food nexus of crop’s production system applying the indicators approach

<https://link.springer.com/article/10.1007/s13201-017-0551-3>

Karan 2018 Quantitative modeling of interconnections associated with sustainable food, energy and water (FEW) systems

<https://www.sciencedirect.com/science/article/pii/S0959652618322649>

Nexus Indicator.

Venghaus 2019 From a few security indices to the FEW Security Index: Consistency in global food, energy and water security assessment

<https://www.sciencedirect.com/science/article/pii/S2352550919301587>

Miner 2019 Parts Unmapped: Linear Multi-variate Analysis of Food, Water, and Temperature Requirements for Regional Stability

<https://apps.dtic.mil/dtic/tr/fulltext/u2/1081507.pdf>

Zhang 2019 Understanding the tele-coupling mechanism of urban food-energy-water nexus: Critical sources, nodes, and supply chains

<https://www.sciencedirect.com/science/article/pii/S0959652619321973>

Tashtoush 2019 A review of the water–energy–food nexus measurement and management approach

<https://link.springer.com/article/10.1007/s42108-019-00042-8>

Mc Grane 2018 Scaling the nexus: Towards integrated frameworks for analysing water, energy and food

<https://rgs-ibg.onlinelibrary.wiley.com/doi/abs/10.1111/geoj.12256@10.1111/(ISSN)1475-4959.Geography_and_the_Water-Energy-Food_Nexus>

Vinca et al.

NEST

Endo, Makoto

<https://www.mdpi.com/2073-4441/7/10/5806/htm>

**Multi-Scale (Inter-links)**

Veldhuis (2017) Integrated approaches to the optimisation of regional and local food–energy–water systems

<https://www.sciencedirect.com/science/article/pii/S2211339817300242>

Abulibdeh & Zaidan (2020) [3]

* Uses WEF index from RAND 2018.

Cremades et al. (2019) [4]

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# Methodology

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# Results & Discussion

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# Conclusions

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# Acknowledgments

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# Data availability statement

All data that support the findings of this study are included as part of the supplementary information.

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