



# The Economic Contribution of North Carolina's Supply Chain

An Analysis of Sectors and Emerging Industries

## Contributors:

**Institute for Transportation Research and Education (ITRE) at NC State University**

Steve Bert, MA, AICP  
Ryan Hassett, BS  
Hannah Smith, MS  
Kyra Stash, BS  
Lisa Callister, BA  
Rob Handfield, PhD  
Daniel Findley, PE, PhD

**Foreword Written by Dana Magliola, MBA of the North Carolina Chamber Foundation**



NCDOT Research  
Project 2023-09



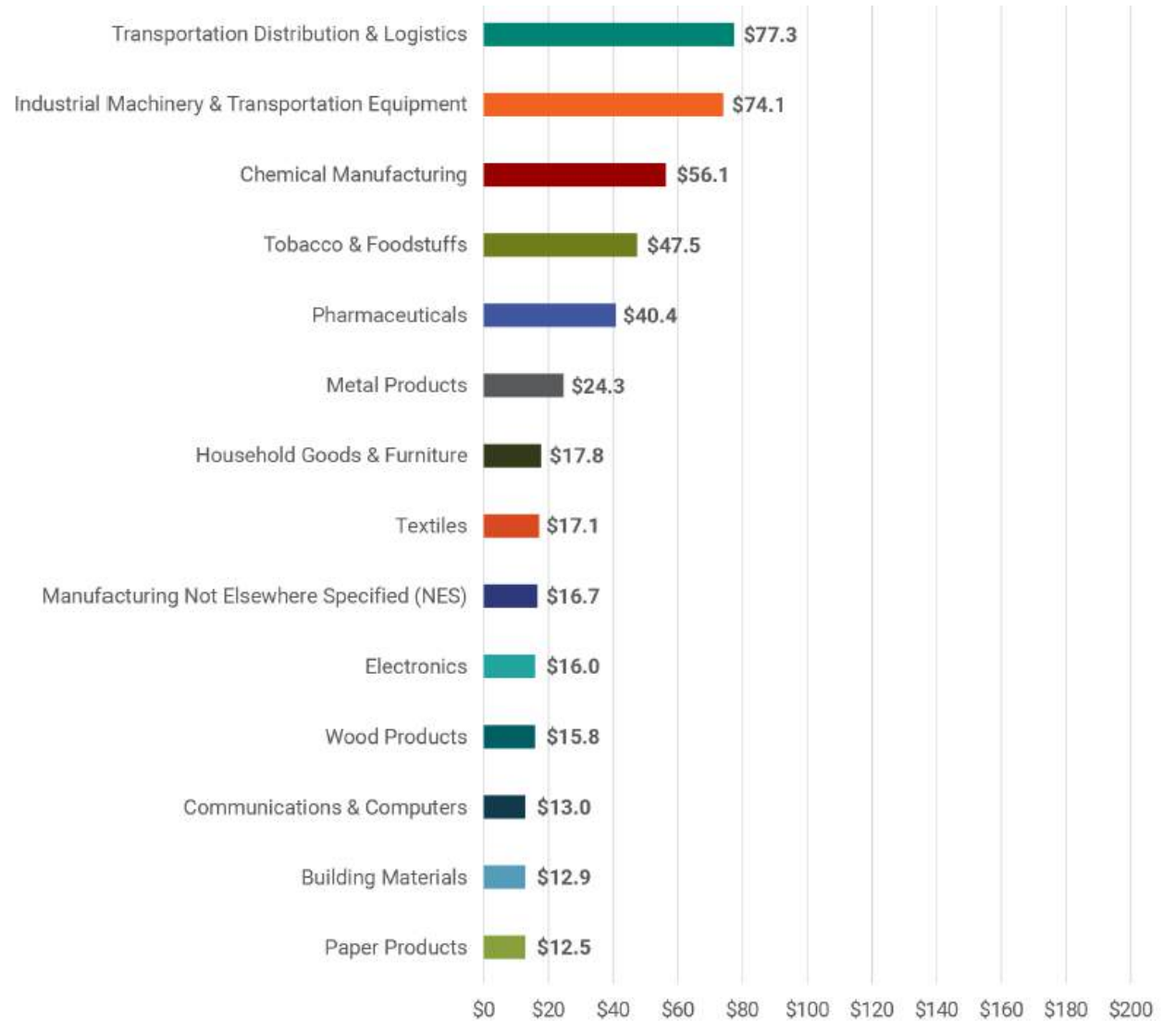
# Outline

1. Study Context & Overview
2. Supply Chain Sectors
3. Economic Contribution of the Supply Chain
4. Emerging Industries & Growing Sectors
5. Importance of the State's Transportation Network



# Supply Chain Sectors

Total Output By Supply Chain Sector (in billions of 2023 USD)



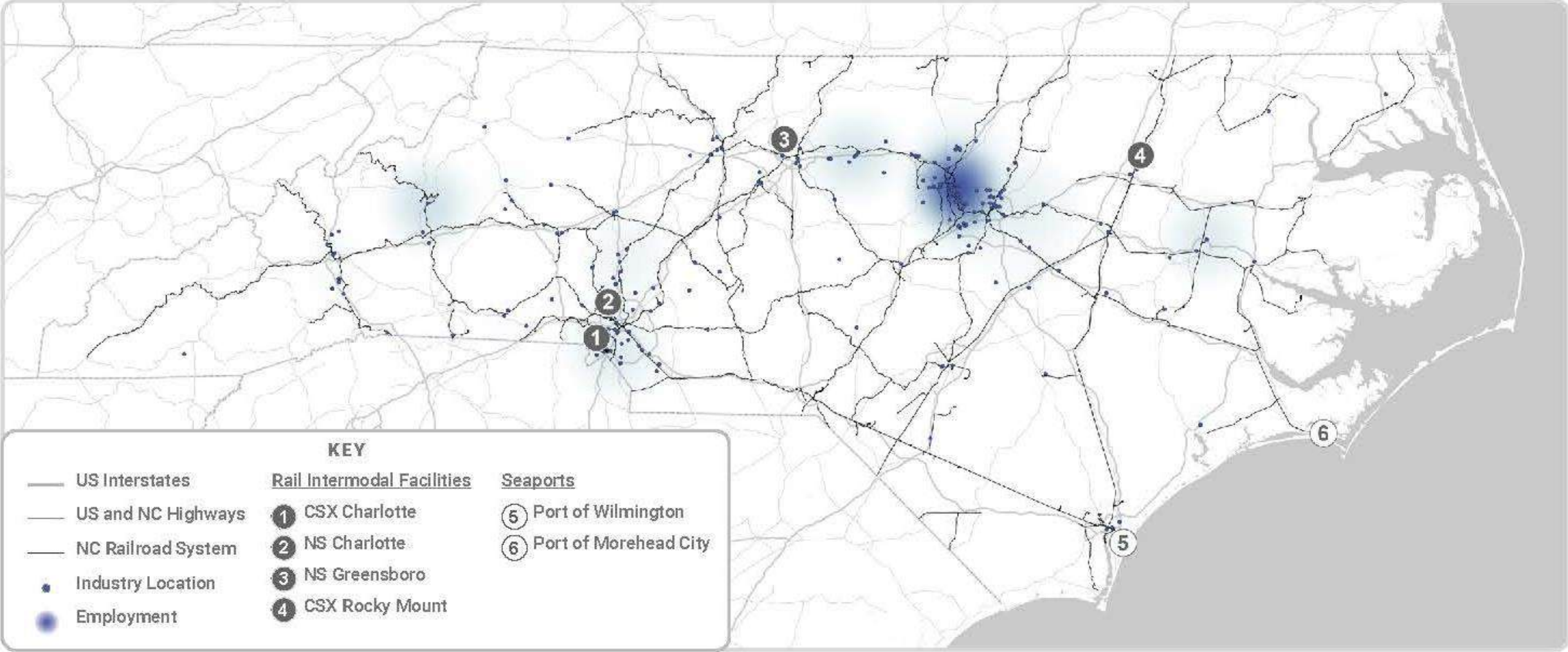
# Economic Contribution of North Carolina's Supply Chain

*An evaluation of 14 leading sectors in the state*

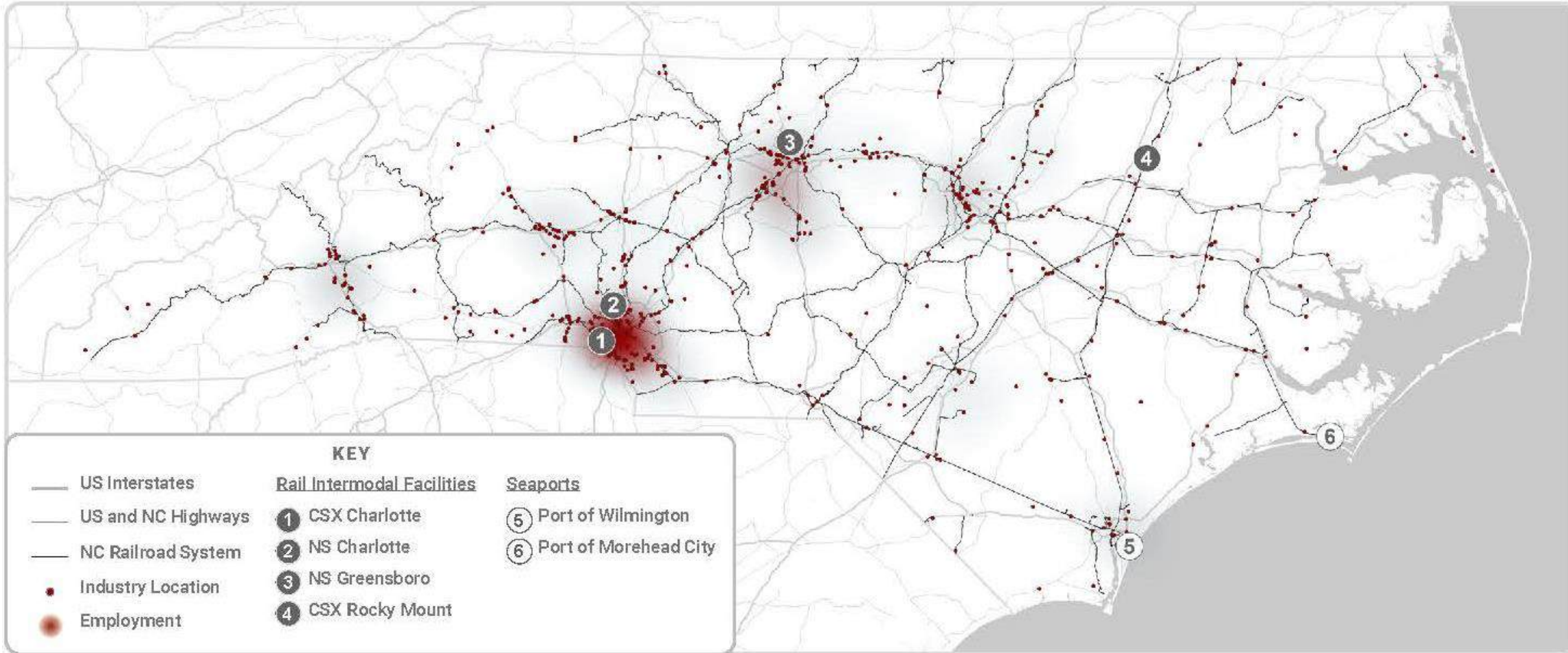
Supply Chain Sector	Jobs	Labor Income (\$B)	Economic Output (\$B)	Value Added (\$B)
Transportation, distribution, & logistics	494,500	\$26.4	\$77.3	\$41.2
Industrial machinery & transportation equipment	213,000	\$16.6	\$74.1	\$31.3
Chemical Manufacturing	137,000	\$10.6	\$56.1	\$20.7
Tobacco & Foodstuffs	105,000	\$6.7	\$47.5	\$24.2
Pharmaceuticals	89,700	\$8.0	\$40.4	\$19.7
Metal Products	76,700	\$5.4	\$24.3	\$9.2
Household Goods & Furniture	74,500	\$4.6	\$17.8	\$7.0
Textiles	69,000	\$3.9	\$17.1	\$5.9
Manufacturing Not Elsewhere Specified	58,800	\$4.3	\$16.7	\$7.0
Electronics	49,500	\$4.3	\$16.0	\$7.2
Wood Products	54,700	\$3.6	\$15.8	\$6.7
Communications & Computers	35,400	\$3.8	\$13.0	\$6.2
Building Materials	42,200	\$3.2	\$12.9	\$5.7
Paper Products	36,100	\$2.6	\$12.5	\$4.2



# Pharmaceutical, biologics, & medical products

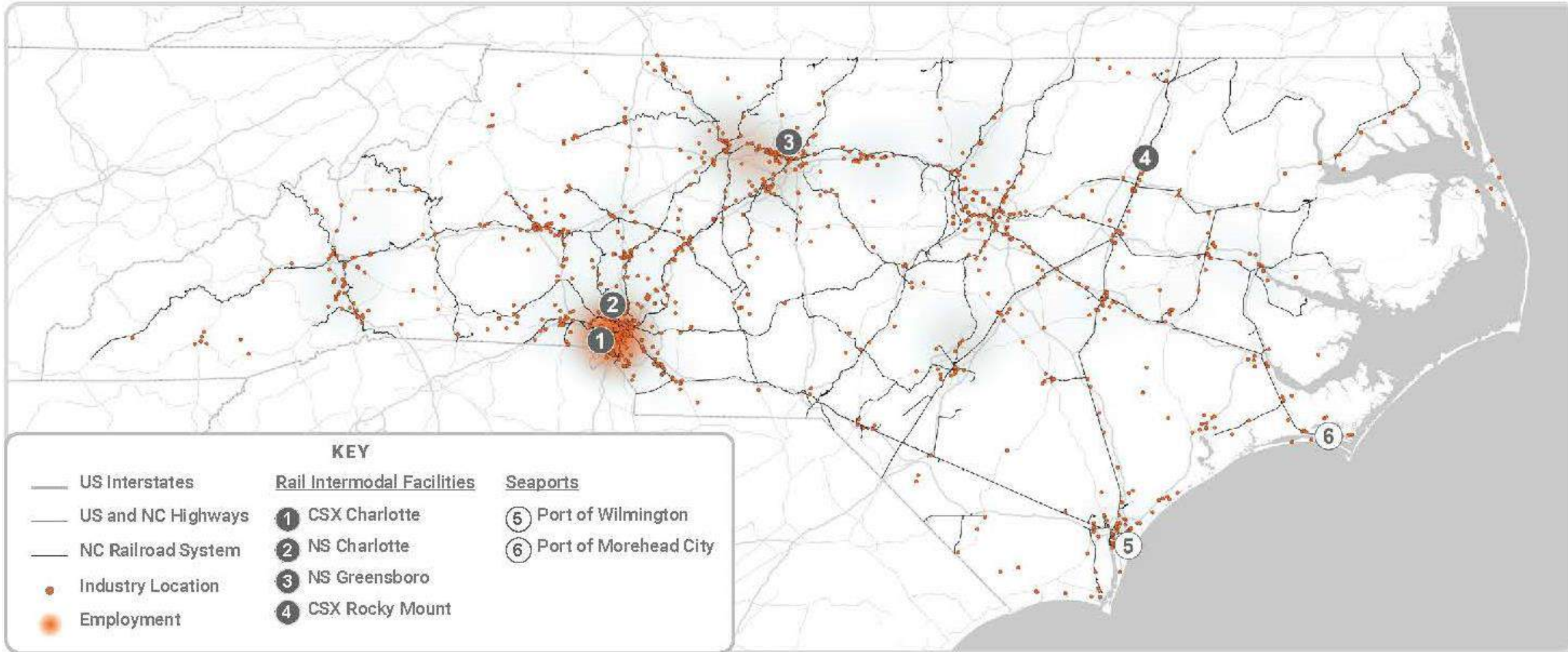


# Chemical Manufacturing

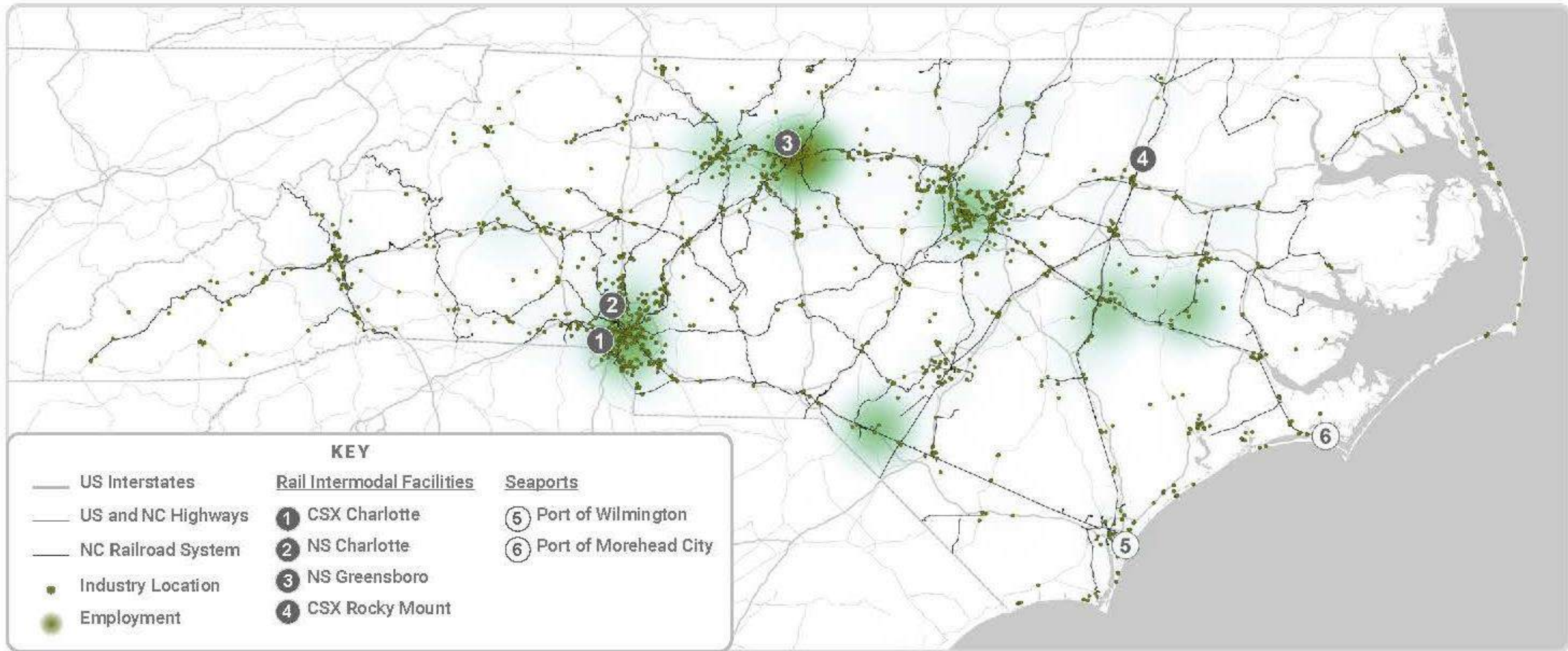




# Industrial Machinery & Transportation Equipment

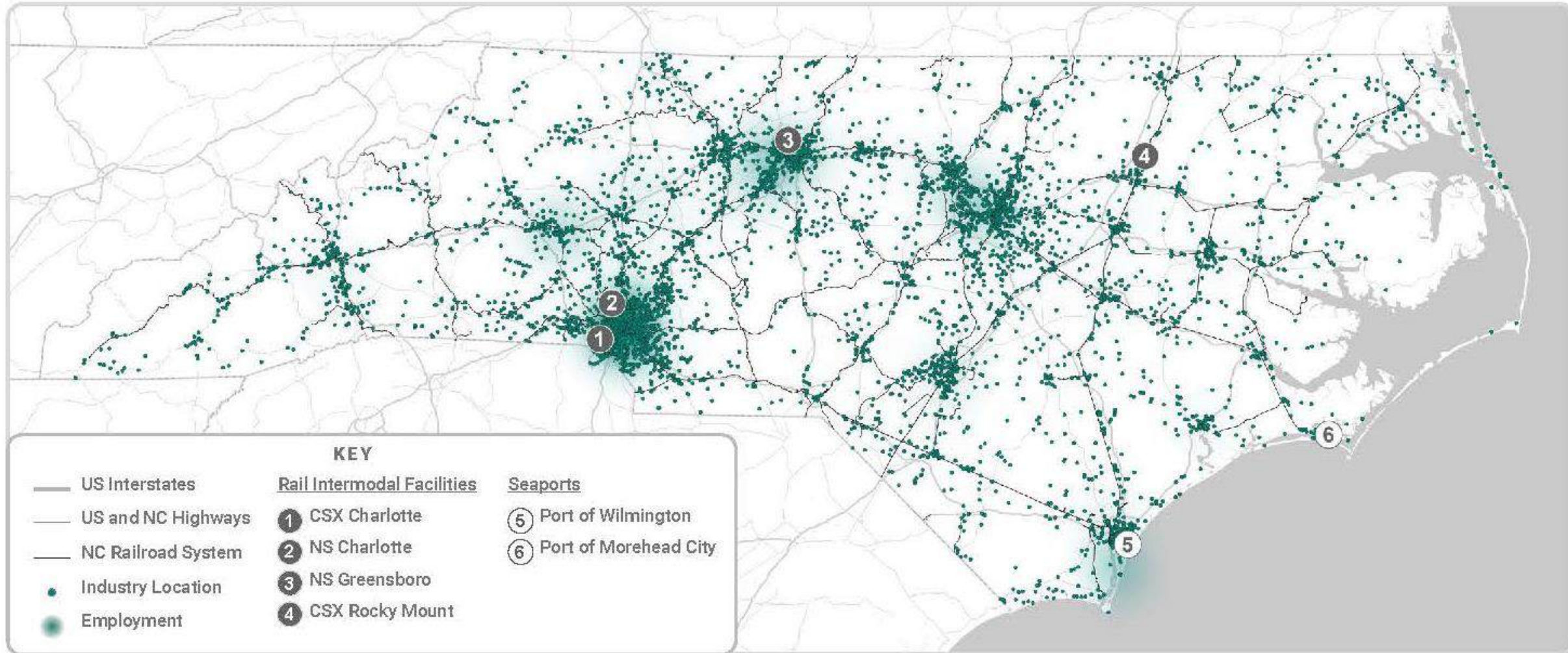


# Tobacco & Foodstuffs

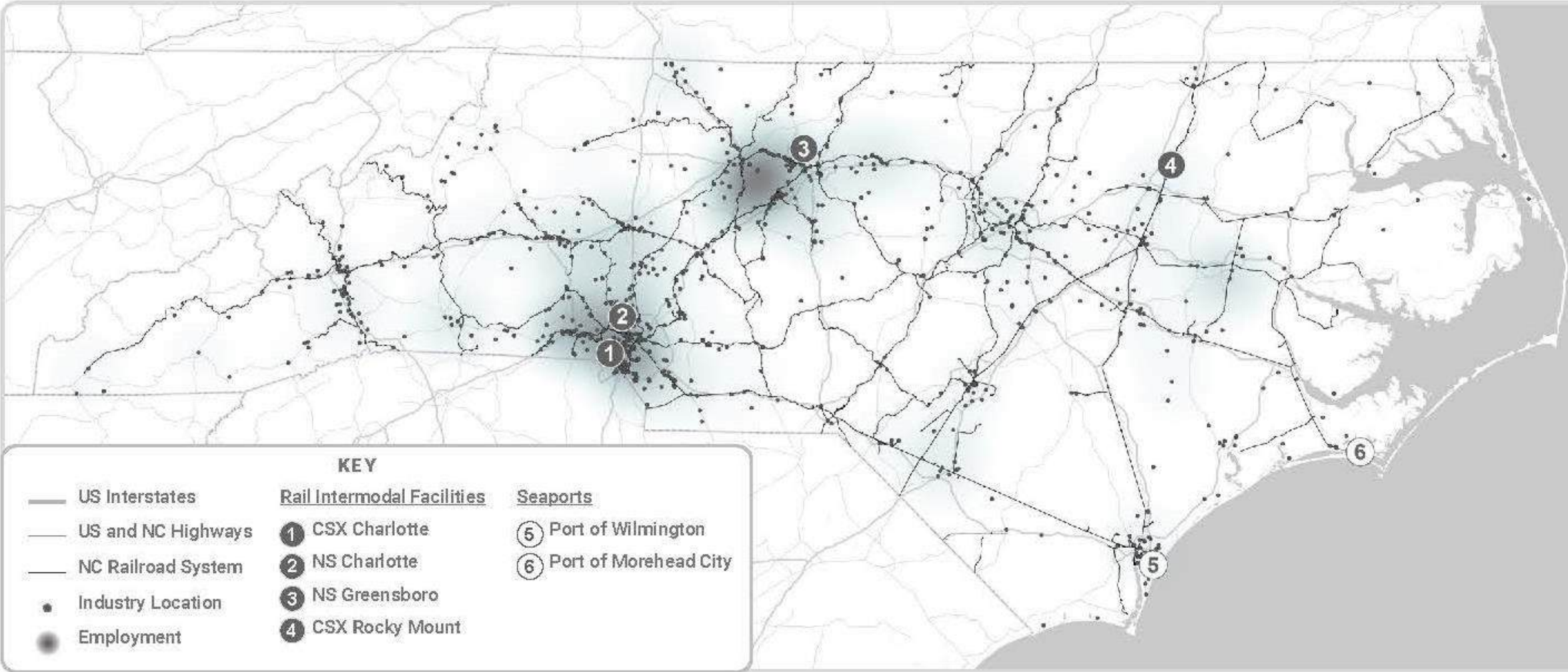




# Transportation, Distribution, & Logistics

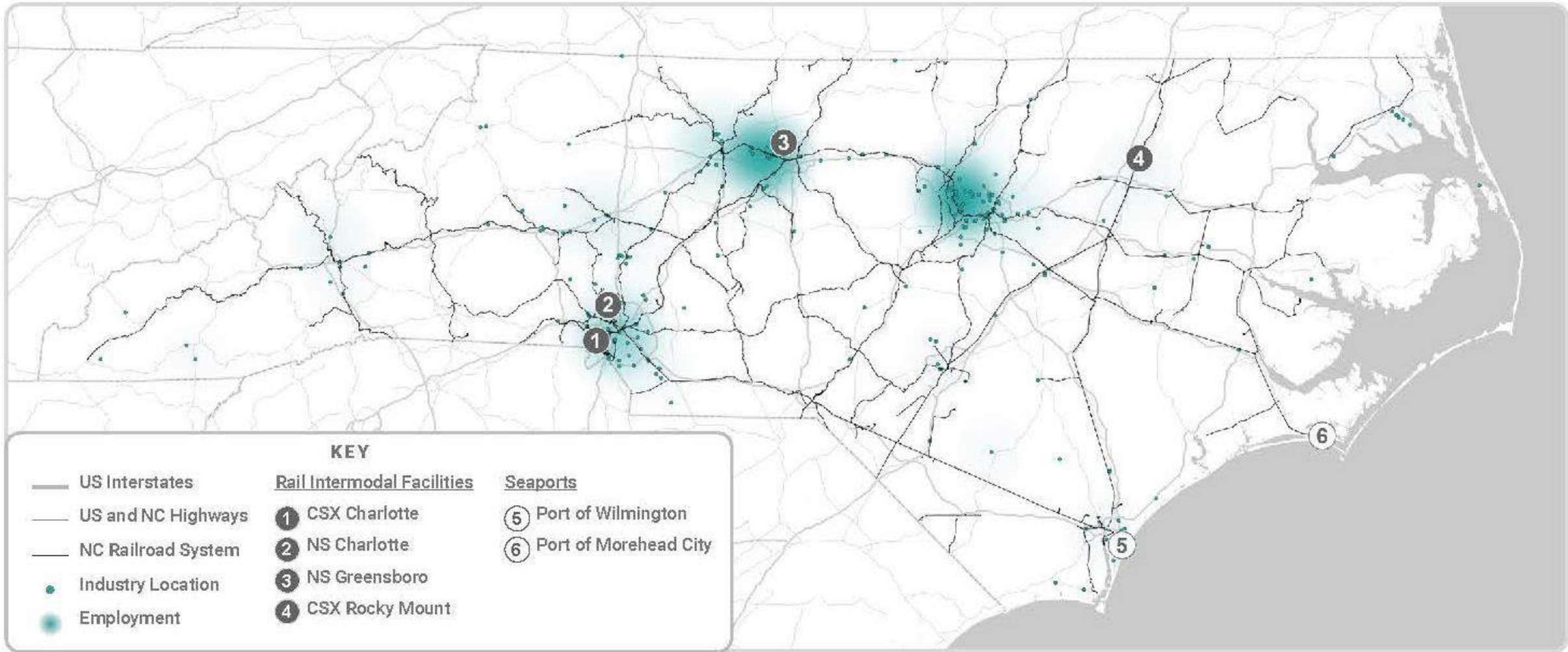


# Metal Products



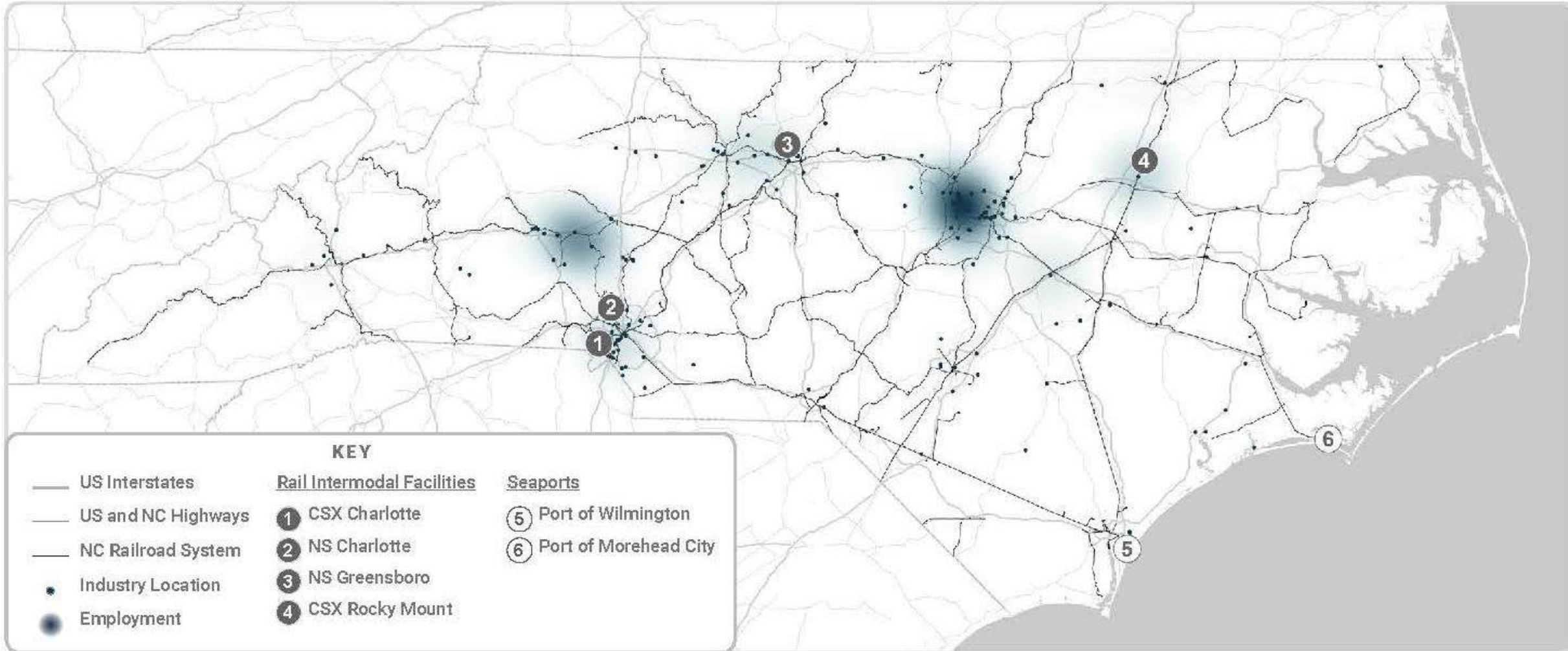


# Electronics

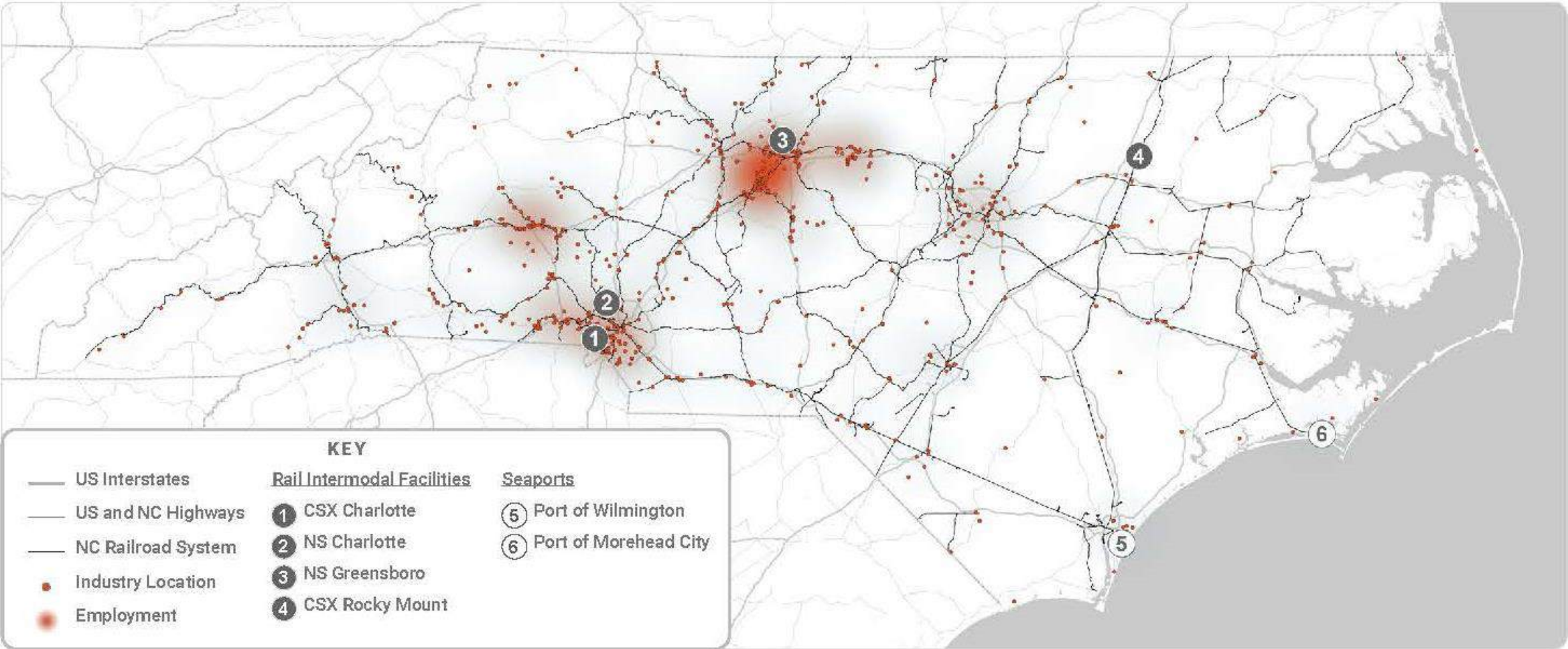




# Communications & Computer

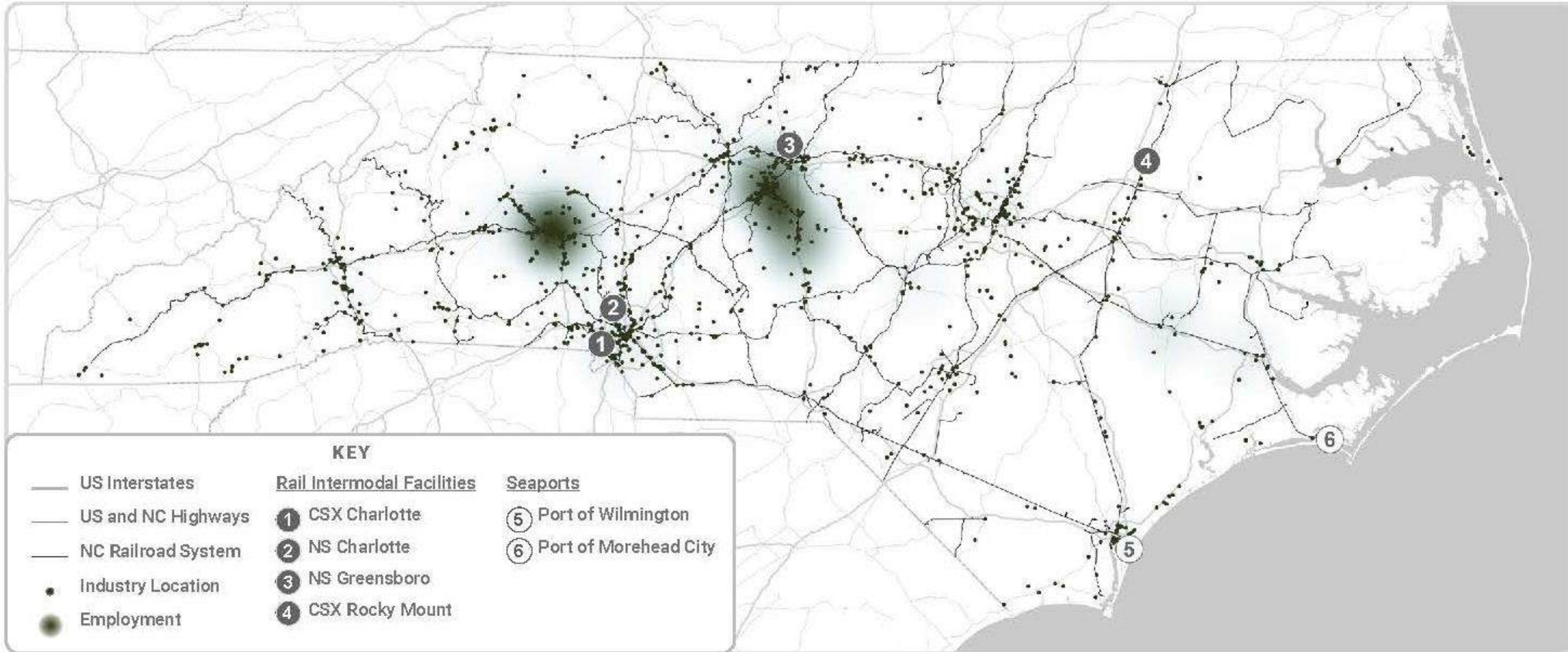


# Textiles



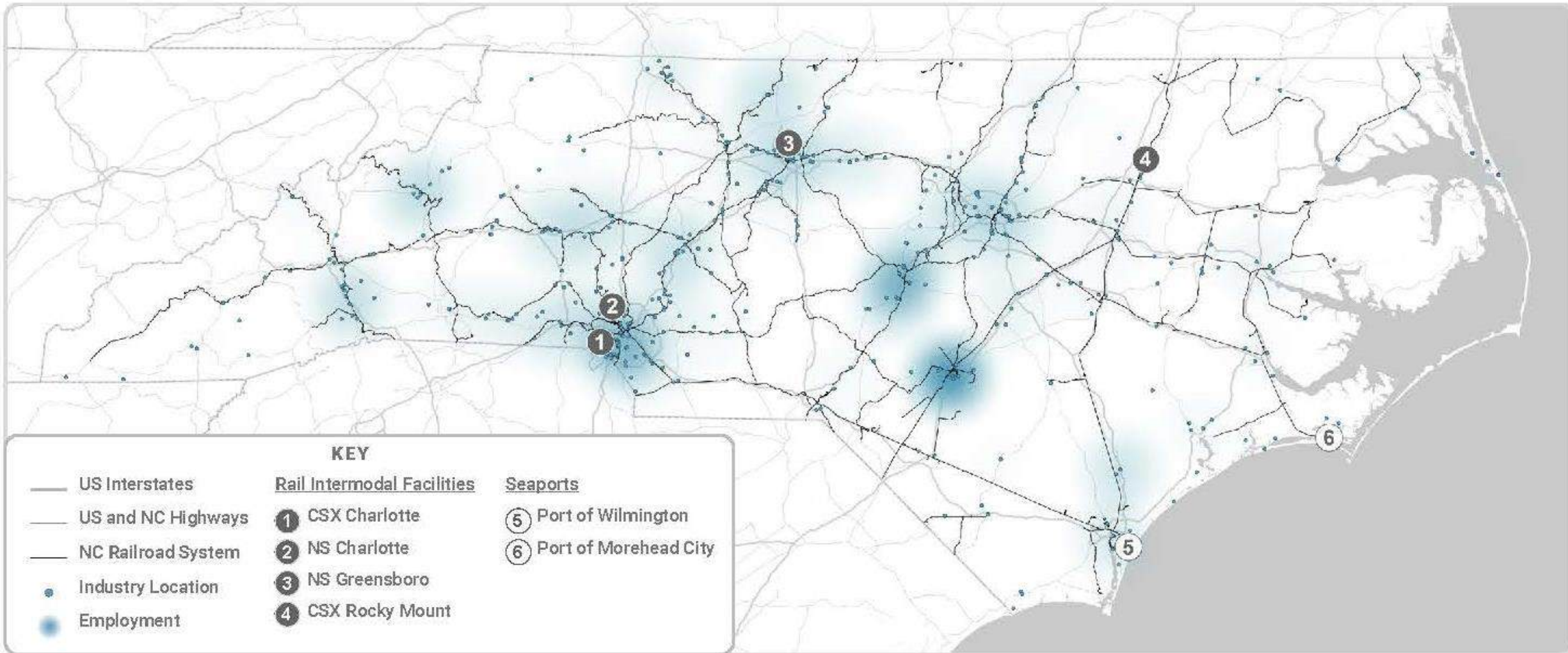


# Household Goods & Furniture

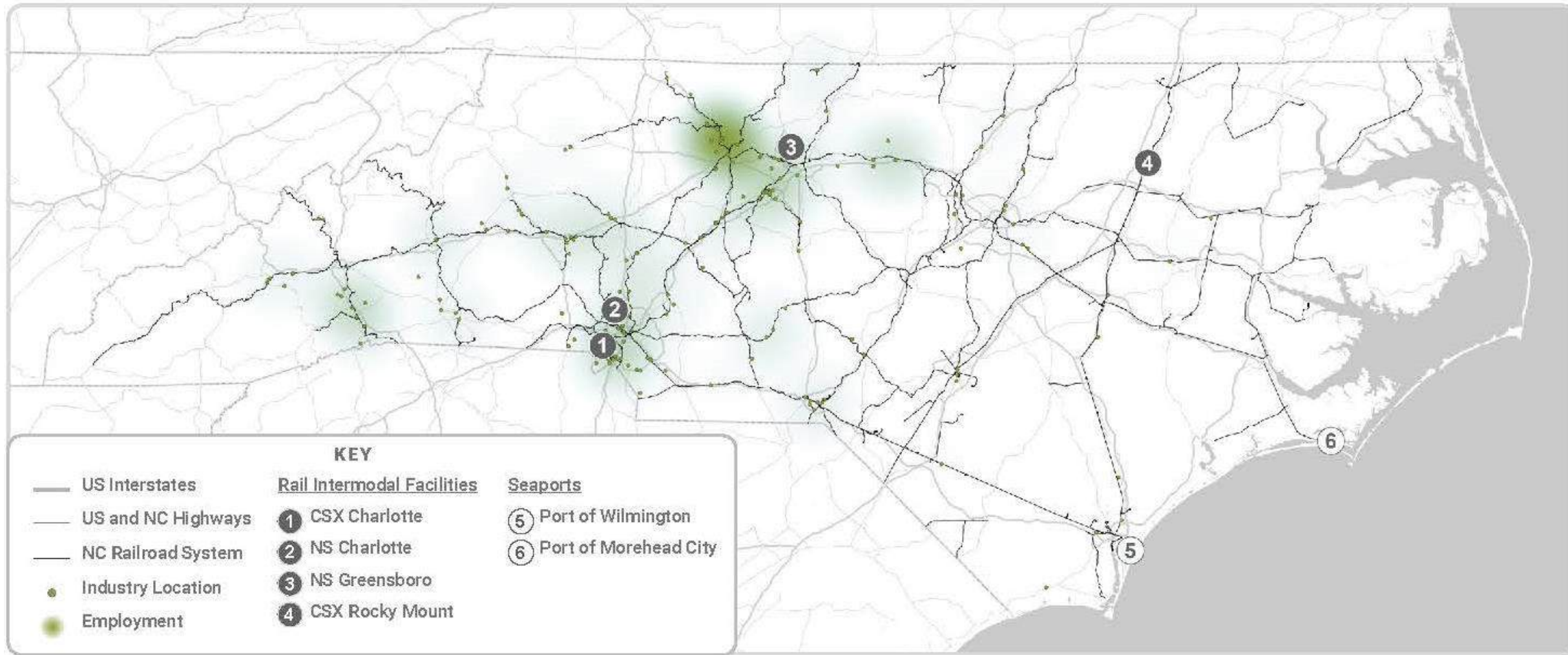




# Building Materials

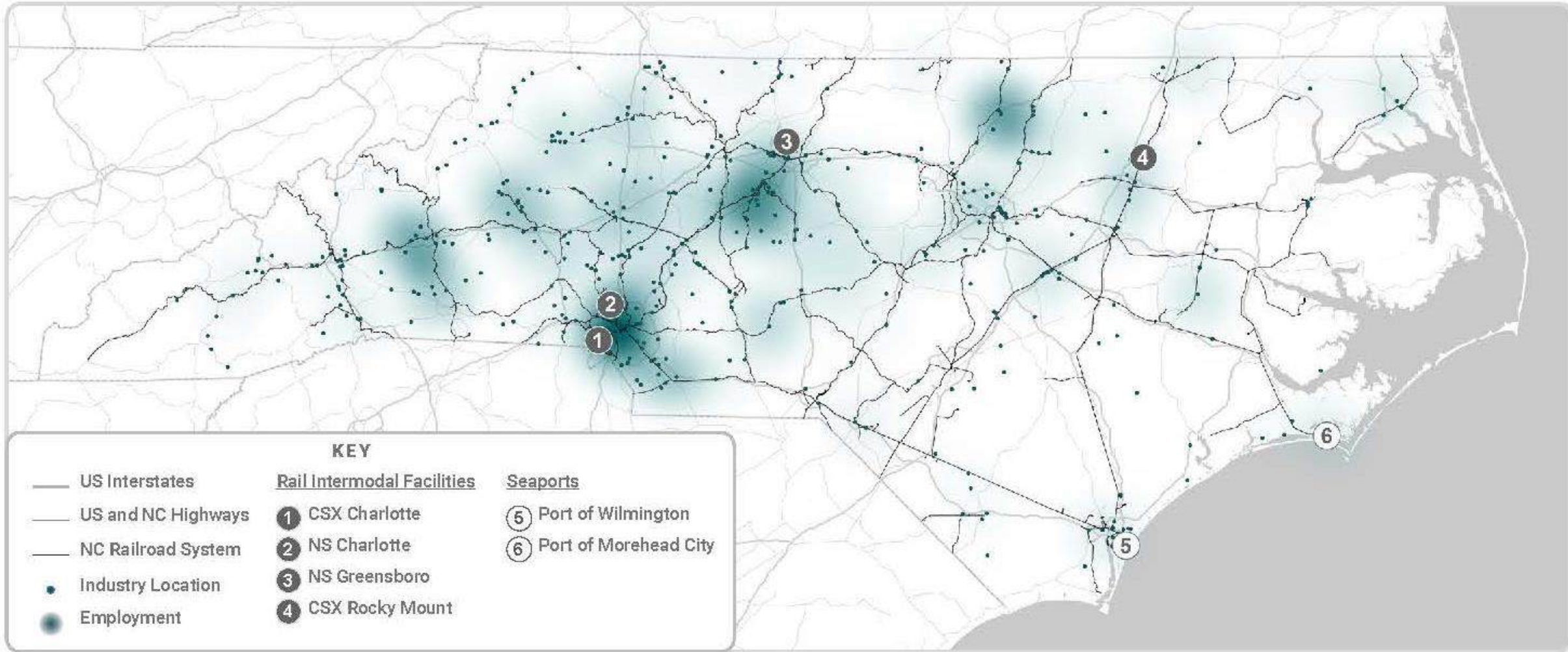


# Paper Products



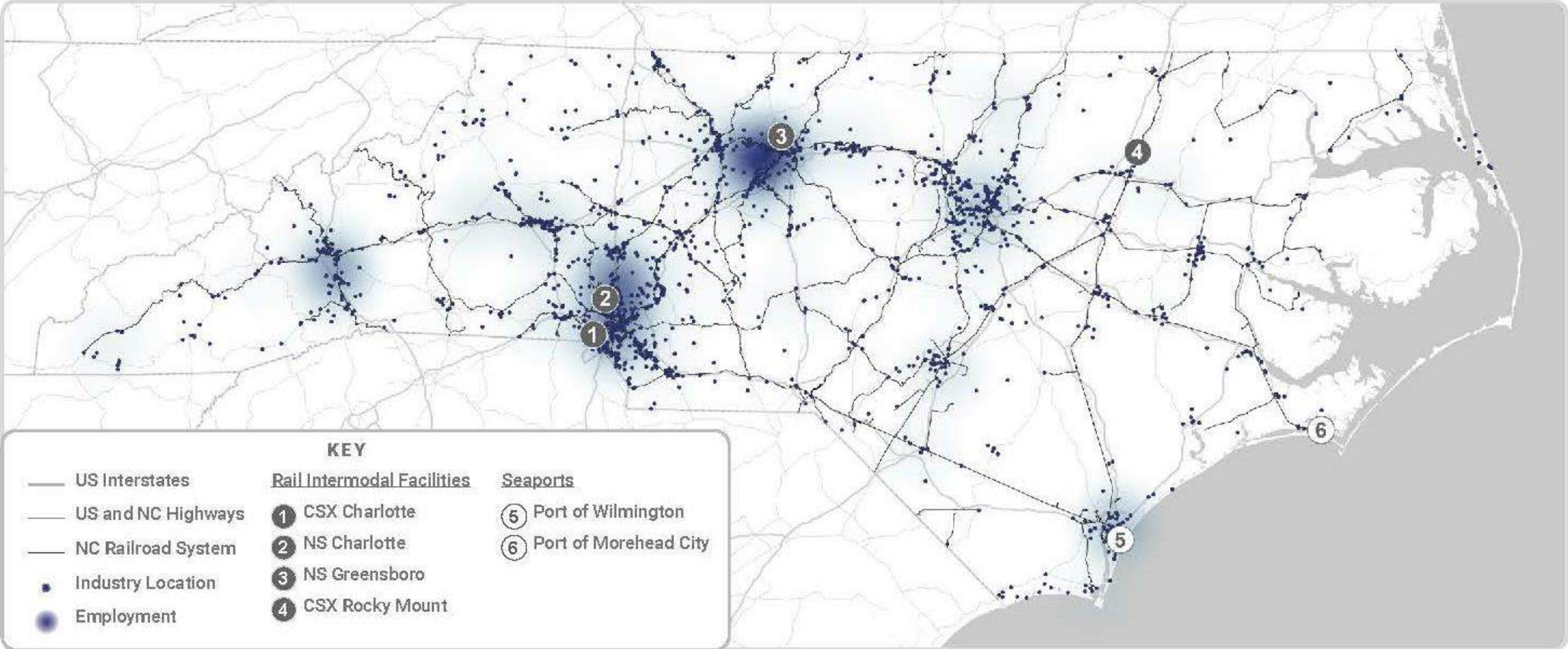


# Wood Products





# Manufacturing Not Elsewhere Specified (N.E.S.)



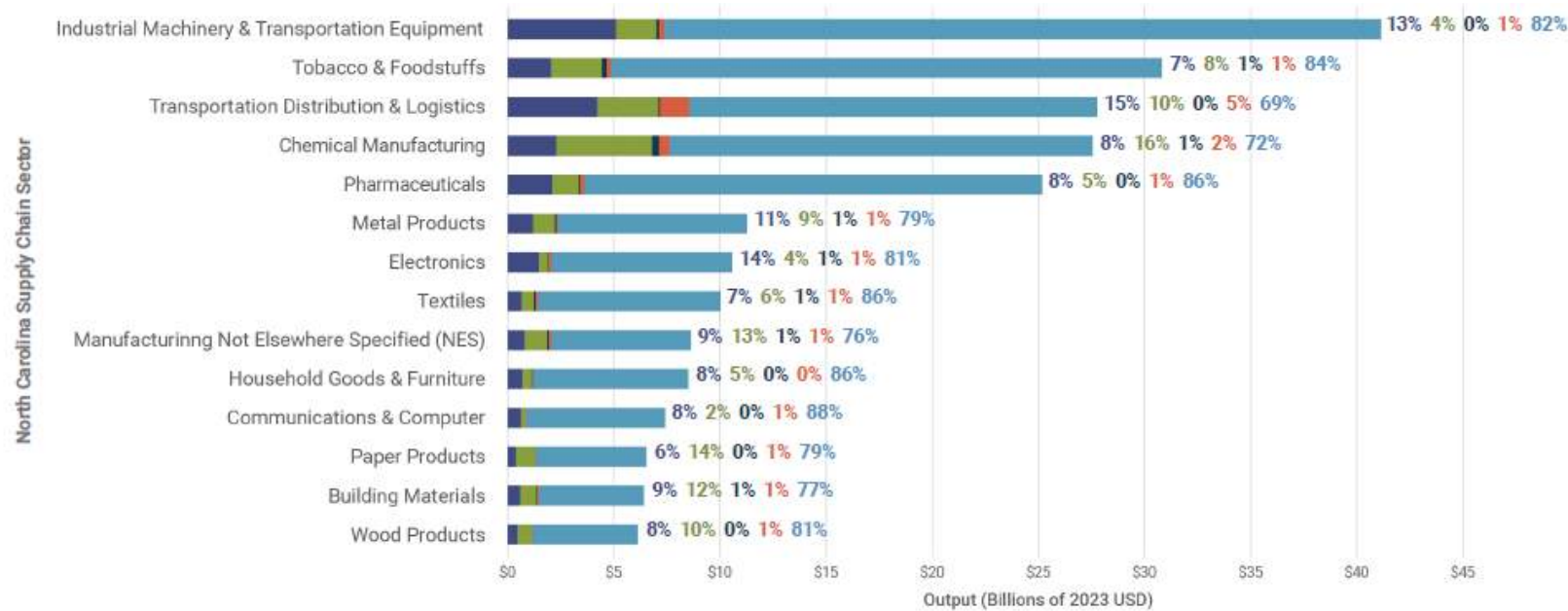
# Emerging Industries & Growing Sectors

- Offshore Wind
- Semiconductors
- Aerospace Manufacturing
- Transportation-Related Industries



# Importance of NC's Transportation Network

Transportation Industry Output Facilitated from Sector Production (Billions of 2023 USD)



	Wood Products	Building Materials	Paper Products	Communications & Computer	Household Goods & Furniture	Manufacturing Not Elsewhere Specified (NES)	Textiles	Electronics	Metal Products	Pharmaceuticals	Chemical Manufacturing	Transportation Distribution & Logistics	Tobacco & Foodstuffs	Industrial Machinery & Transportation
Air Transportation	\$0.49	\$0.59	\$0.39	\$0.63	\$0.69	\$0.81	\$0.67	\$1.48	\$1.21	\$2.11	\$2.32	\$4.25	\$2.08	\$5.16
Rail Transportation	\$0.64	\$0.79	\$0.92	\$0.18	\$0.45	\$1.08	\$0.59	\$0.43	\$1.02	\$1.26	\$4.50	\$2.88	\$2.37	\$1.84
Water Transportation	\$0.01	\$0.05	\$0.01	\$0.02	\$0.02	\$0.08	\$0.07	\$0.07	\$0.06	\$0.04	\$0.34	\$0.05	\$0.23	\$0.16
Pipeline Transportation	\$0.05	\$0.07	\$0.04	\$0.04	\$0.04	\$0.09	\$0.13	\$0.09	\$0.08	\$0.20	\$0.46	\$1.40	\$0.21	\$0.25
Truck Transportation	\$4.95	\$4.94	\$5.17	\$6.58	\$7.33	\$6.56	\$8.59	\$8.53	\$8.93	\$21.59	\$19.97	\$19.20	\$25.93	\$33.77





[go.ncsu.edu/NCSupplyChain](https://go.ncsu.edu/NCSupplyChain)

## Questions?

### *Project Team*

- Steve Bert, MA, AICP
- Ryan Hassett, BS
- Hannah Smith, MA
- Nadia Degboste, MS
- Nihal Erain, MS, PMP
- Robert Handfield, PhD
- Daniel Findley, PE, PhD

### *Primary Contacts*

- Steve Bert, [stevebert@ncsu.edu](mailto:stevebert@ncsu.edu), 919-263-4062
- Ryan Hassett, [ryan\\_hassett@ncsu.edu](mailto:ryan_hassett@ncsu.edu), 919-515-9351
- Daniel Findley, [Daniel\\_Findley@ncsu.edu](mailto:Daniel_Findley@ncsu.edu), 919-515-8717

