



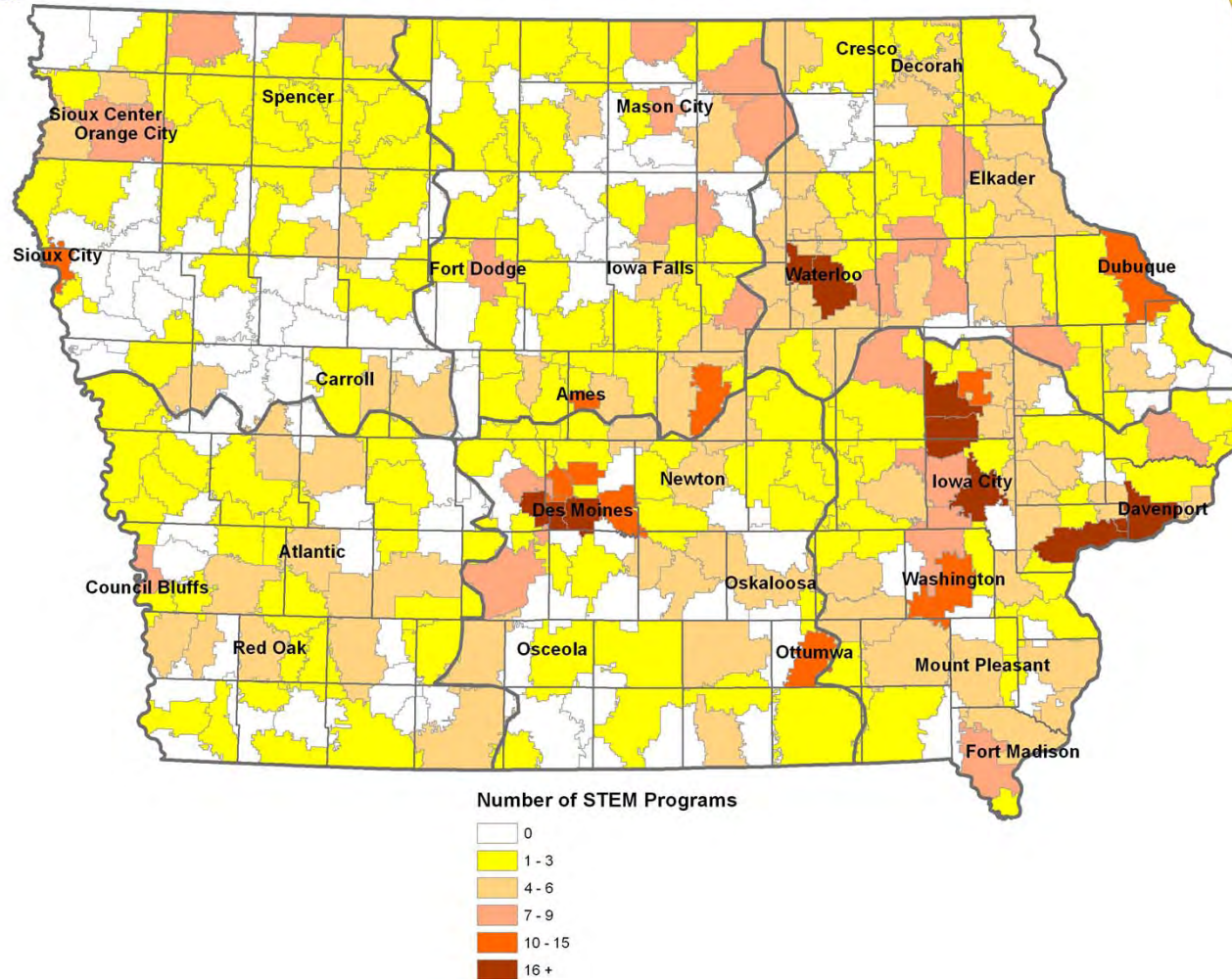
Governor's STEM Advisory Council



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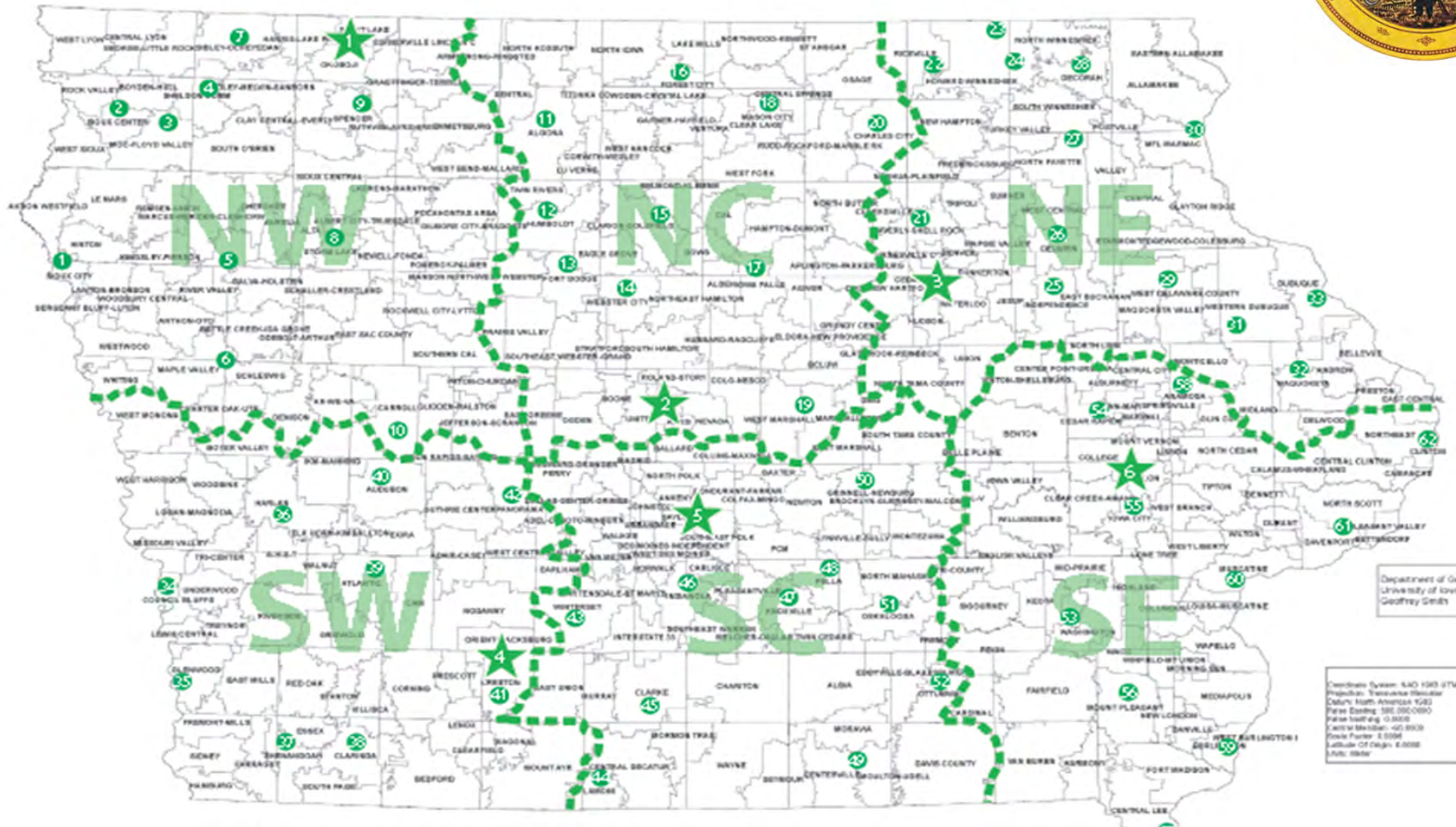


STEM Education Heat Map, September 2012



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Iowa's STEM Regional Network



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Iowa's 12 Exemplary Scale-Up Programs for 2012-13

1. A World in Motion
2. Fabulous Resources in Energy Education (FREE)
3. Partnership for Engineering and Educational Resources for Schools (PEERS)
4. FIRST Lego League
5. FIRST Tech Challenge
6. HyperStream
7. KidWind
8. Project HOPE
9. The CASE for Agriculture Education in Iowa
10. State Science + Technology Fair of Iowa
11. iExploreSTEM
12. Corridor STEM Initiative (CSI)



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Iowa STEM Council Recommendations 2013 and beyond

1. Establish a STEM Professional Development Center to provide vision and leadership, Its work will include focusing on blended learning utilizing interactive technologies and expanding the pool of professional development providers to include private sector professionals.
2. Improve STEM teacher training, licensure, and retention. This would include creating rigorous alternate pathways to the classroom for STEM professionals and creating a STEM endorsement for secondary and a STEM emphasis for elementary teachers.
3. Build a web portal to house a best-practices STEM clearinghouse -- a comprehensive searchable database of curriculum, demonstrations and directories of resources that are local, regional, national and international. In other words, this would be an extraordinary online STEM repository for educators, parents and anyone else invested in STEM.
4. Establish regional STEM-focused schools to provide students with specialized STEM education, whether they are headed for college or career training after high school.
5. Increase public awareness of the importance of STEM by launching a campaign to include multi-media messaging focused on STEM careers.
6. Incentivize Iowa businesses to commit workforce, facilities and other resources such as equipment to STEM education. And in turn promote the Iowa Workforce Development Skilled Iowa initiative through schools, colleges, and informal educational facilities.

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