

On-farm Manure Management to Improve Circular Economy



The diagram illustrates the Circular Economy concept. At the center is a red circle labeled 'CIRCULAR ECONOMY'. Surrounding it are four main arrows forming a cycle: 'INPUT' (top), 'RECYCLE' (left), 'COLLECTION' (bottom), and 'PRODUCTION' (right). Each arrow has a small icon at its end: a water drop for INPUT, a recycling symbol for RECYCLE, a shopping cart for COLLECTION, and a factory for PRODUCTION. The entire cycle is enclosed within a grey circle.

1

NC STATE EXTENSION

Five principles of circularity

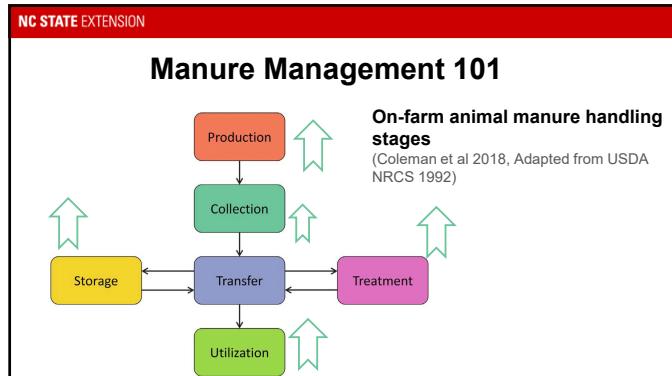
- Increase use efficiency
- Design out waste and pollution
- Keep products and materials in use
- Regenerate natural systems
- Provide economic benefits

Source: Ellen MacArthur Foundation, ASABE CBSI

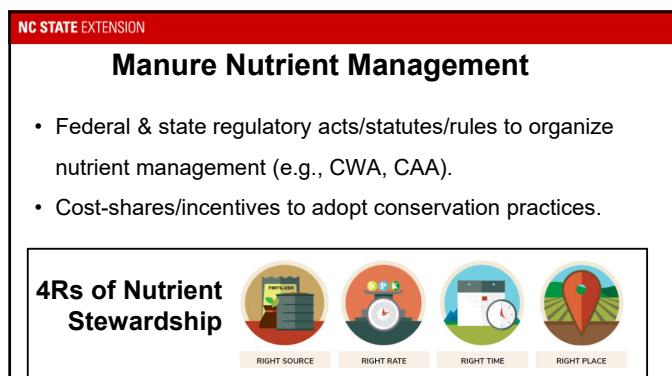
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The diagram illustrates the four-component model of an animal-crop production system. It features four interconnected components arranged in a circle: **Animal** (black oval at the top), **Crop** (green oval on the left), **Manure** (brown oval on the right), and **Soil** (orange oval at the bottom). Each component is connected to its neighbors by curved arrows indicating a flow of resources. Additionally, each component has a vertical double-headed arrow above it, representing a two-way exchange with the external environment. The center of the circle contains the text: "Four component model of animal-crop production system".

3



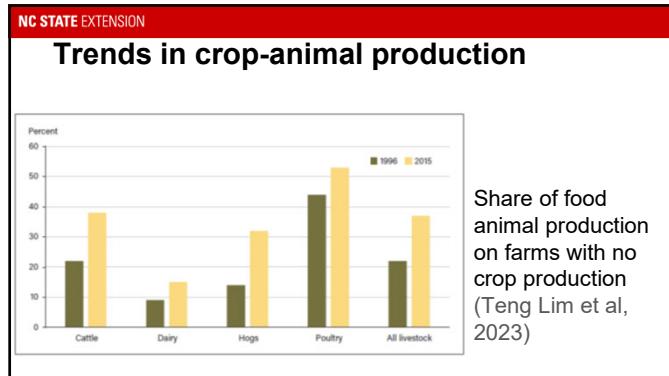
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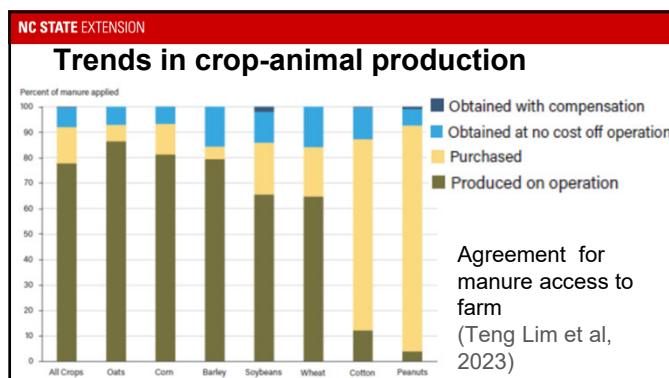
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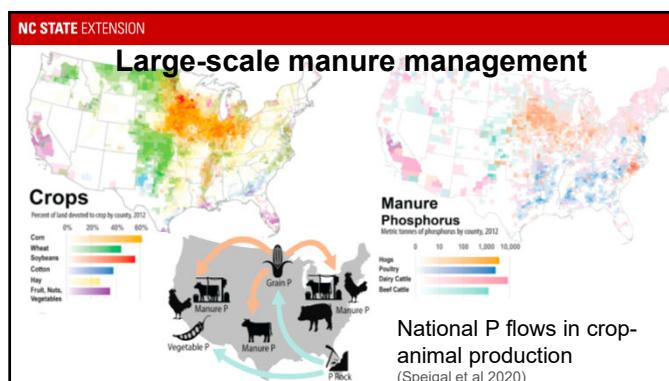
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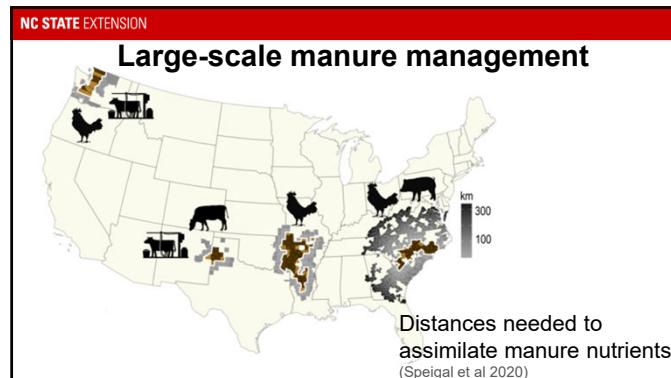
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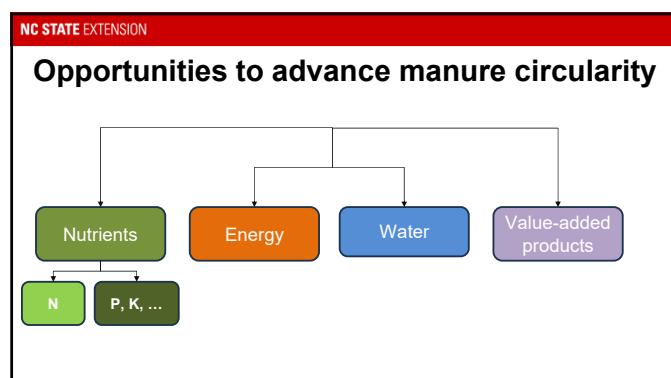
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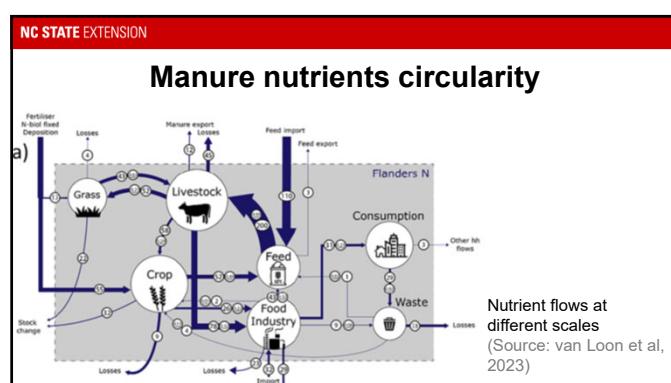
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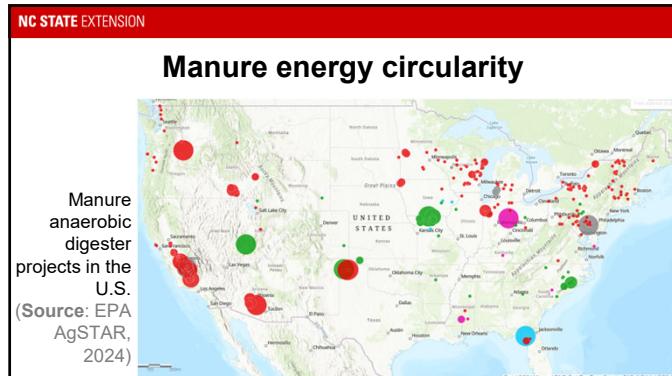
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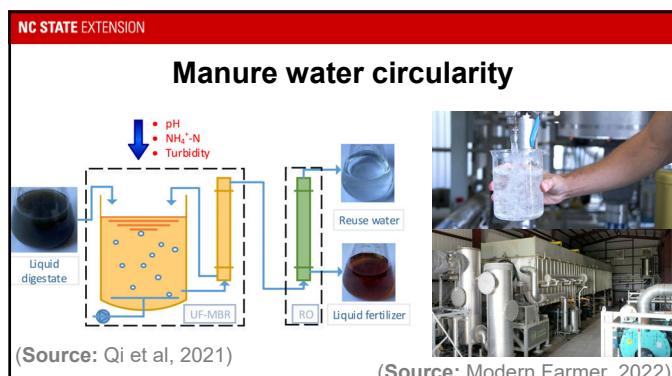
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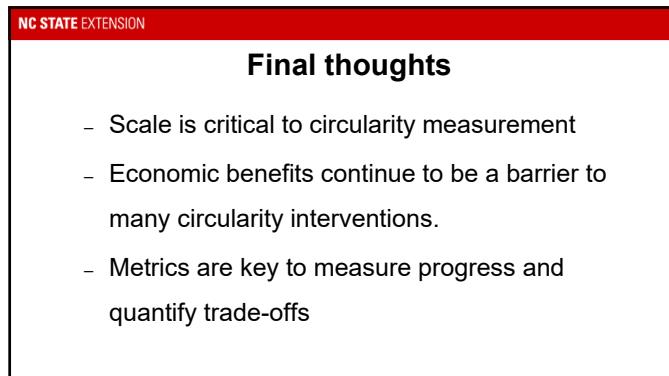
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