

Collective Action: Multi-Level Perspective & Strategic Niche Mngt

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Strategic niche management: hoe geef je nieuwe ontwikkelingen een kans?

- Een vernieuwing heeft altijd te maken met weerstand vanuit het bestaande systeem en heeft daarom bescherming nodig om te kunnen ontwikkelen.
- SNM, a tool for sustainable innovations introduction (Raven, 2005)
- a **Niche** is 'a protected space that allow experimentation with the co-evolution of technology, user practices and regulatory structures'



3 different kinds of niches (Bos et al. 2008)

- **Market niche** is a specific **application domain**, where specific, local conditions result in a preference for a new technology over established technology (thus without the need of extra protection).
- **Technological niches** are special application domains that are protected from (some of the) rules of the regime => new (temporary) markets are created that provide a testing ground for **novel technologies**.
- **R&D niche** a protected space in R&D activities, created on the basis of **expectations**.



Important processes (Grin et al., 2010):

- Visioning
 - Voicing and shaping of expectations
- Building social networks. Successful when:
 - The network of actors is broad
 - Alignment within the network, facilitated through regular interactions
- Learning:
 - Openness: technical, social and economic aspects
 - Reflective: Question underlying assumptions, willingness to change course (2nd order learning).

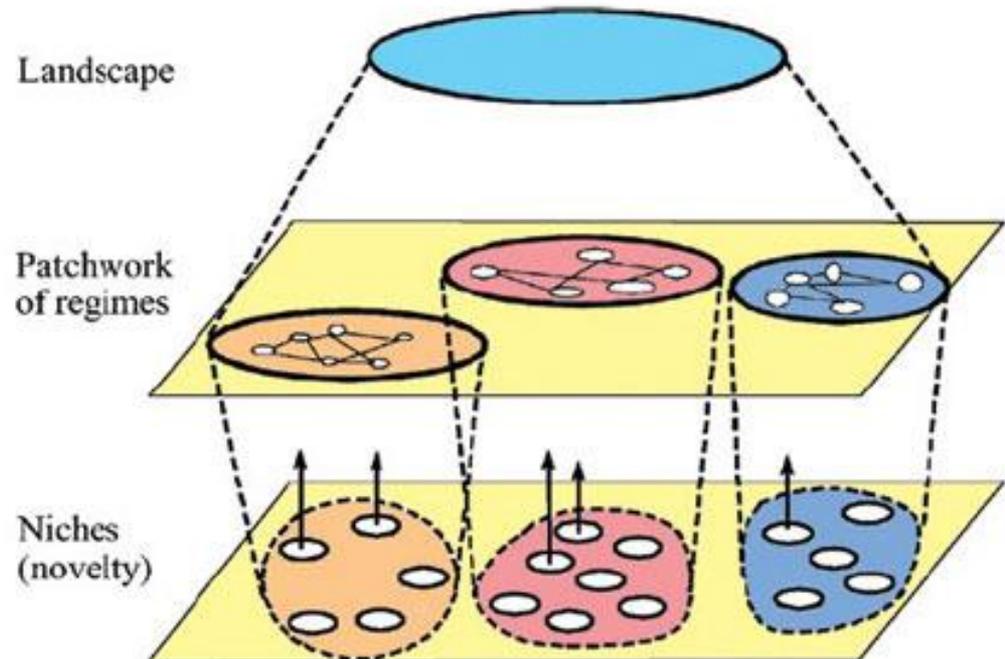
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- Visioning
 - Developed a shared vision on the optimisation of microalgae production (2008-2011).
- Building social networks.
 - By 2011, networking efforts resulted in an consortium-agreement signed by national and regional authorities, Wageningen UR, and 19 companies (multinational/SME).
- Learning:
 - Partners with divergent knowledge on microalgae teamed up
 - The second part of the learning process started with the agreement on R&D and an joint experimental site.

Multi-level perspective.

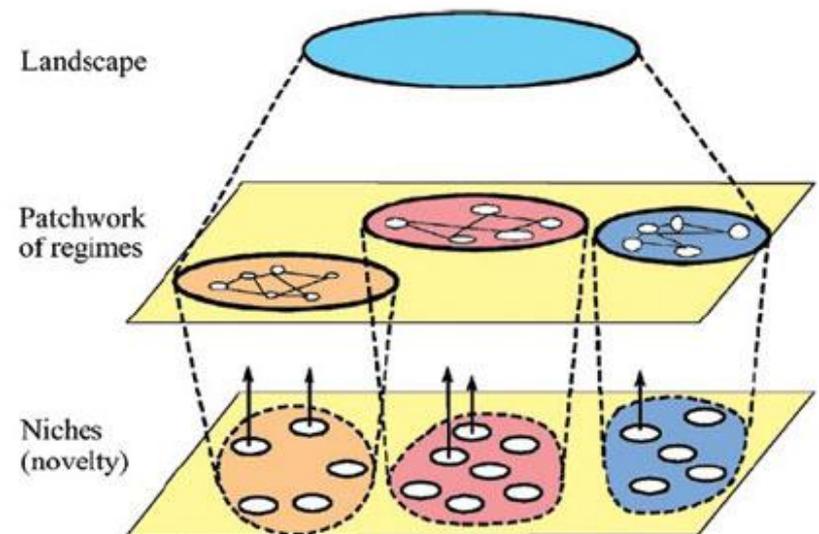
- MLP: 'the **key** idea is that change takes place through processes of co-evolution and mutual adaptation within and between the layers'.



Multi-level perspective.

Verandering op meerdere niveaus

- Landscape (sociotechnical): grote externe trends
- Regimes (meso-level): status quo (wetten, tradities, afspraken, systemen, markten)
- Niches: verandering van onderaf vanuit uiteenlopende kleine initiatieven
- De 3 niveaus beïnvloeden elkaar sterk (pos.;neg.)

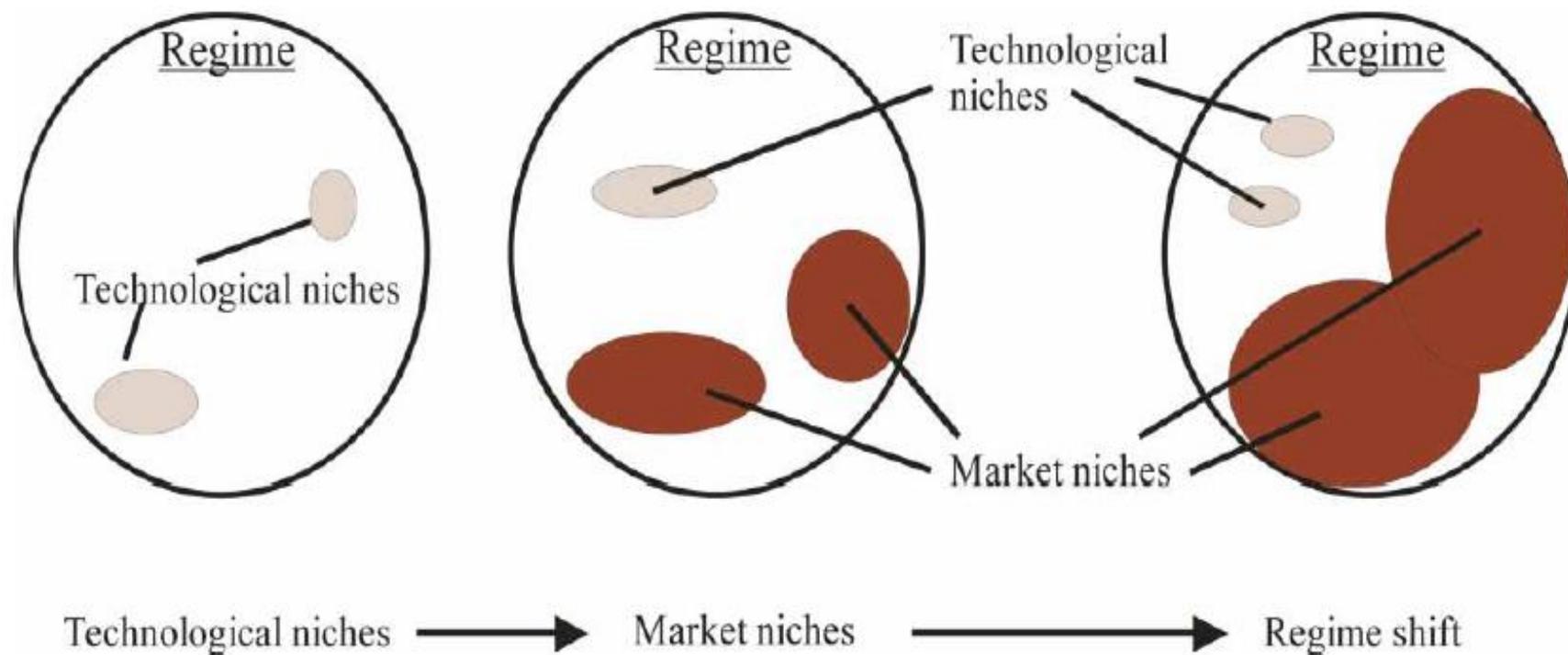


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- Landscape level pressures:
 - Feed the world-proteins scarcity; climate change; energy sourcing problems (Bos et al., 2008):
- Regimes level
 - agrifood regime, chemical regime, and fuel industry.
 - Firms and governments were keen on developing new inputs; saw potential for New Business Development.
- Niche level
 - Various market niches and technological niches were created.

Van technologische niches naar regime shift



Schot & Geels (2008)

WUR-Take away

- SNM/MLP leveren een bruikbaar raamwerk voor het begrijpen van innovaties in consortia en instrumenten om te gebruiken.
- Rol van intermediair Wageningen UR (Batterink et al, 2008):
 - Initiator van processen
 - Network vorming en stakeholder management
 - Faciliteren van het leerproces (en back office)