

**The Food Chain Tool**

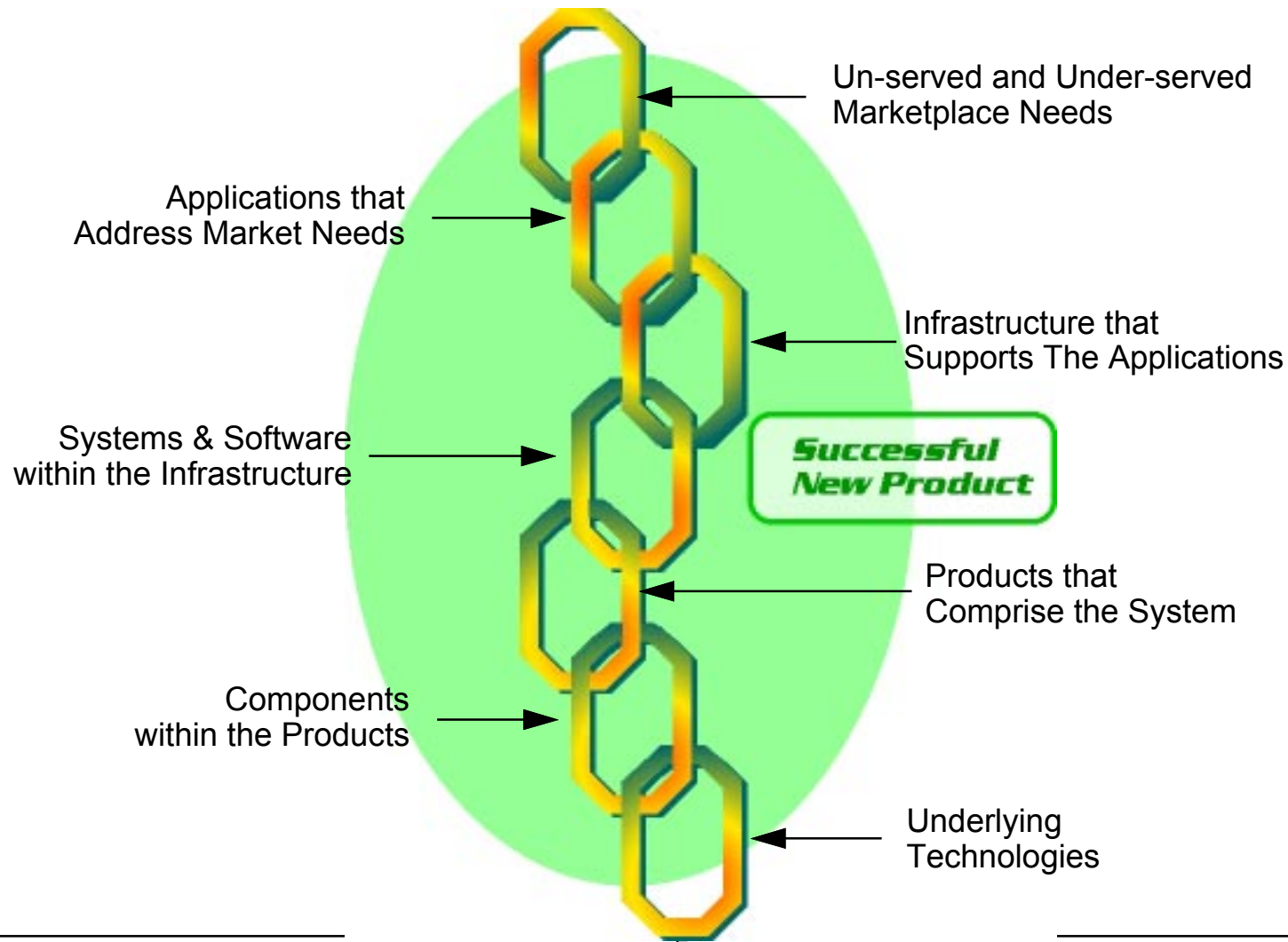
**Overview of The Tool**

Stuart J. Lipoff  
192 Kirkstall Road  
Newton, Ma 02460  
tel +1.617.244.3877  
fax +1.617.249.0369  
eMail [stu@lipoff.org](mailto:stu@lipoff.org)  
web [www.lipoff.org](http://www.lipoff.org)

## Technology Planning Basic Concept

---

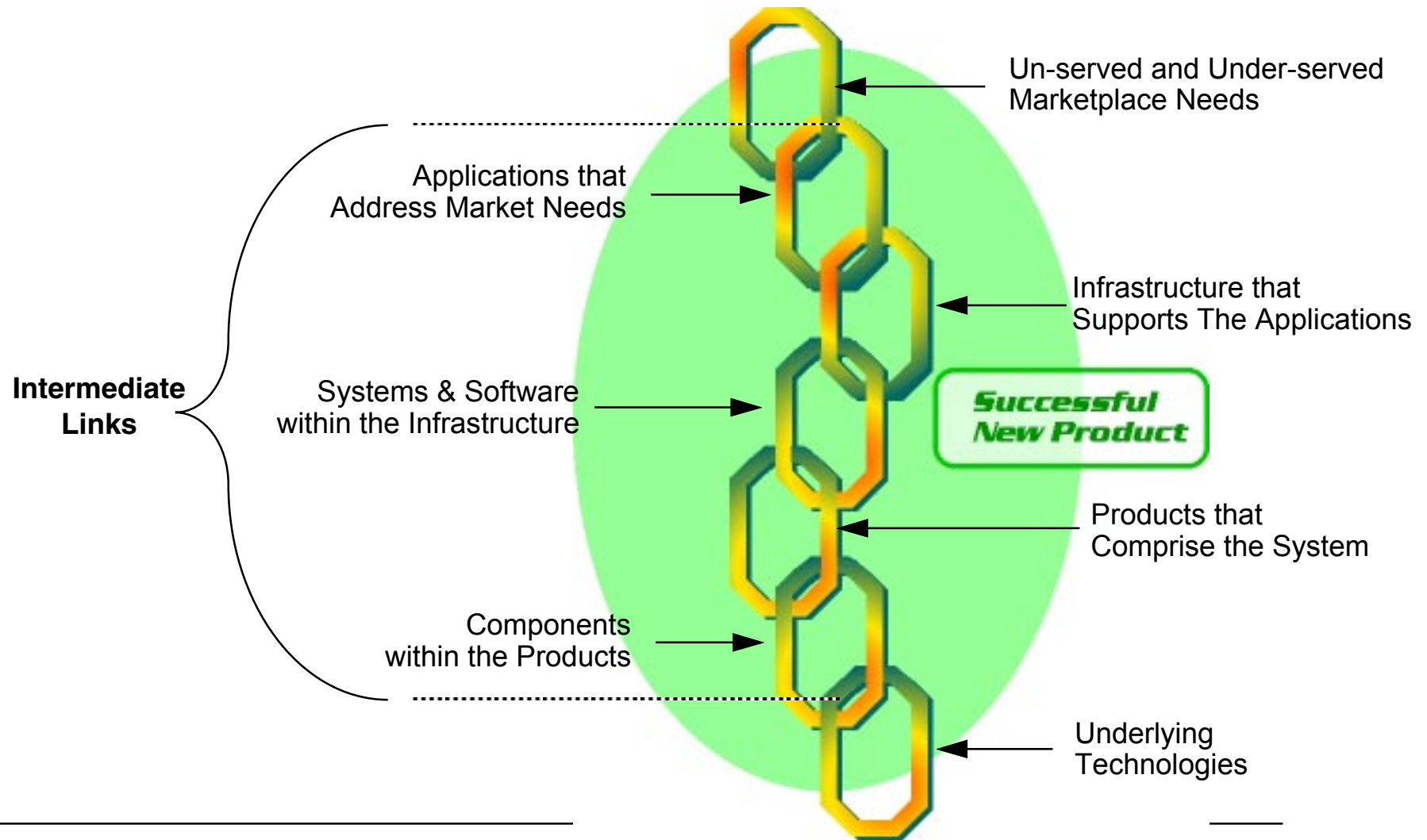
The “food chain” is a tool used to link underlying technologies to market needs and is based on the idea that technology only has value when linked.



## Technology Planning Intermediate Links

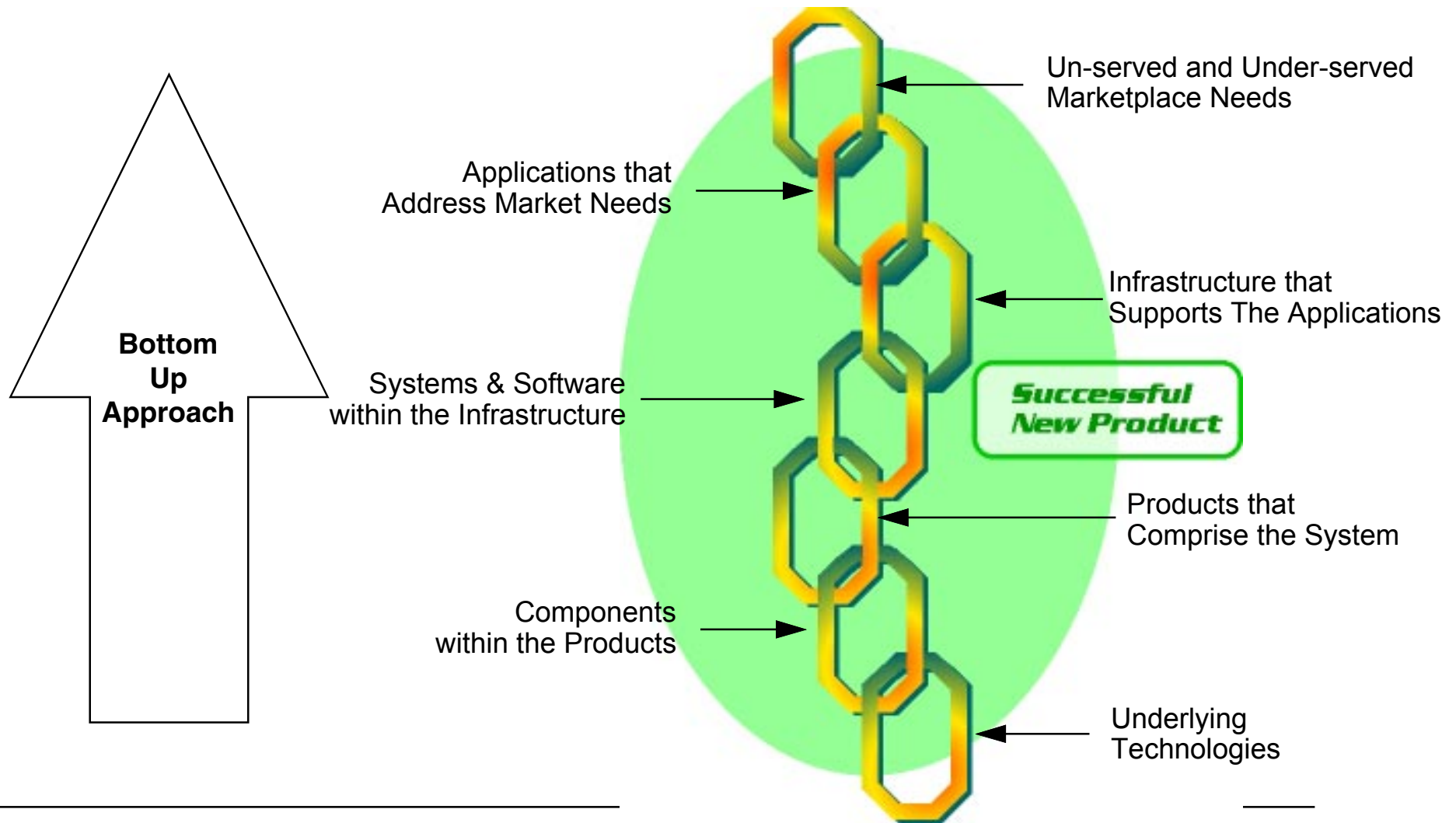
---

Although a technology may map to a need, unlocking revenue requires completing the intermediate links as well.



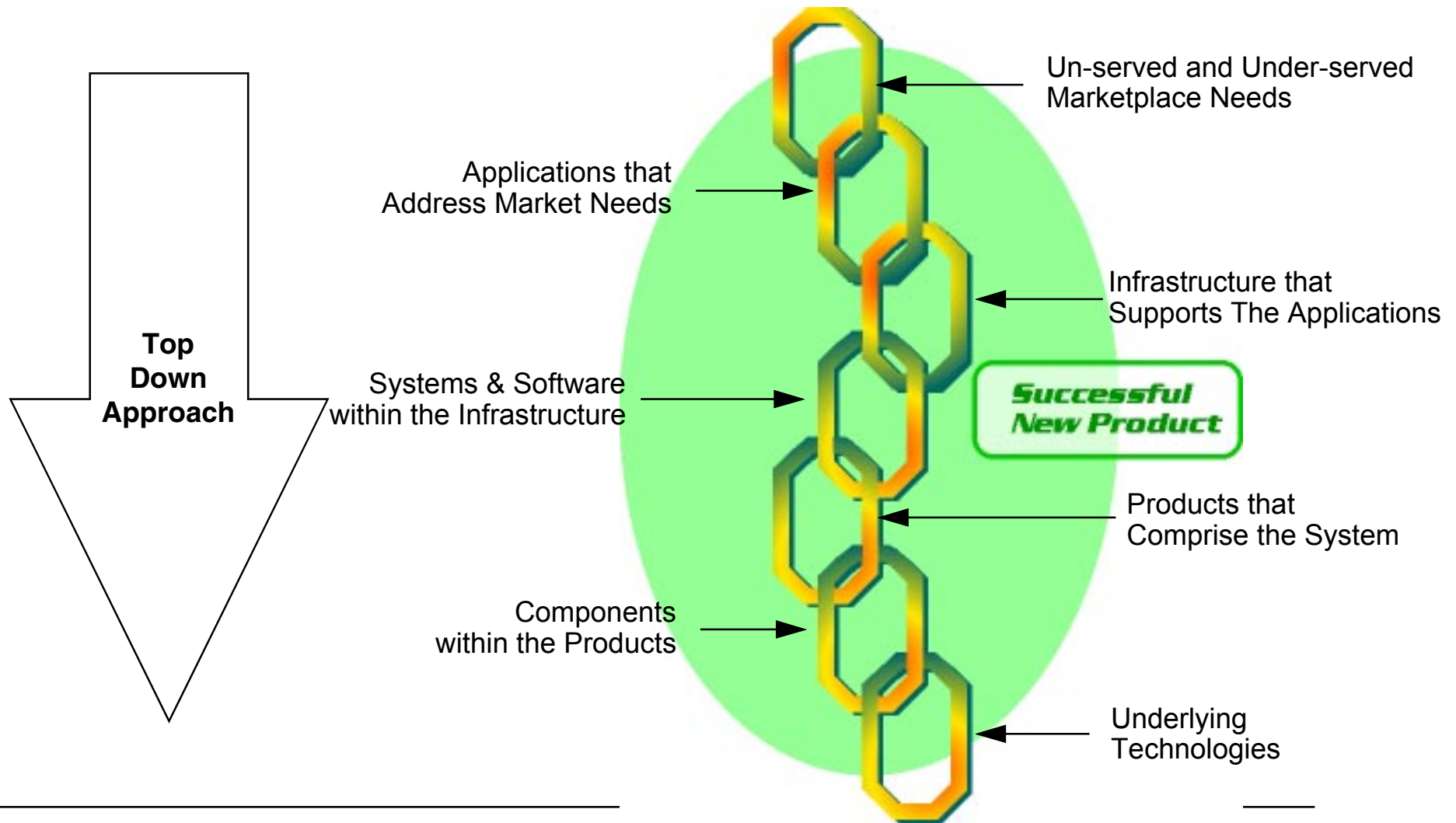
## Technology Planning The Process/Bottom Up

One approach is to start with a candidate technology at the top and work your way up the chain and attempt to discover or validate a market need.



## Technology Planning The Process/Bottom Up

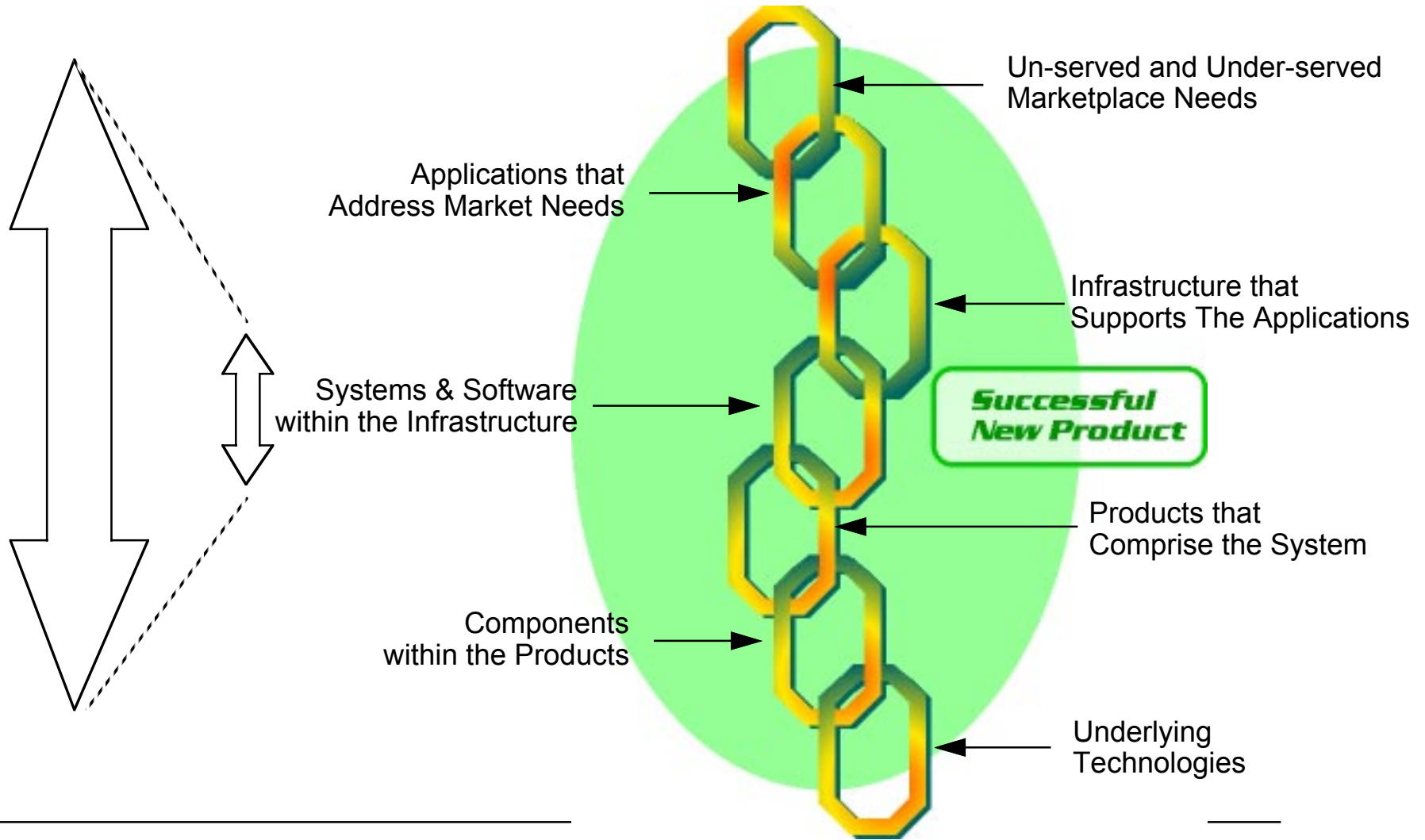
You can also start with a need and brainstorm down the chain to discover technology candidates.



## Technology Planning The Process/Middle Expansion

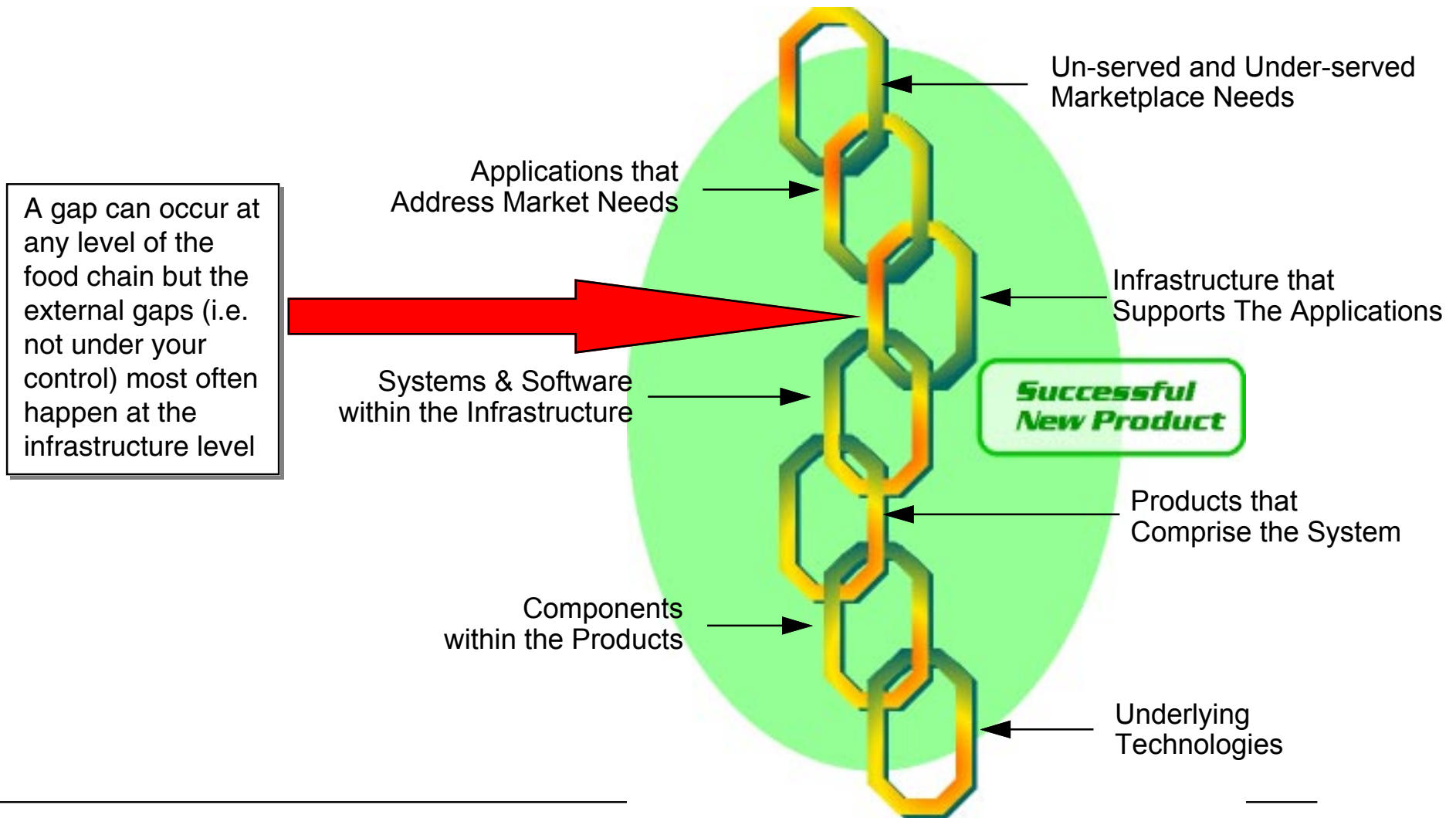
---

You can also derive insights by starting with a product or application and brainstorming in both directions.



## Technology Planning The Process/Discovering Gaps

The failure to satisfy a link identifies a gap that must be closed before revenue can be generated.



## Technology Planning Summary of Approach

---

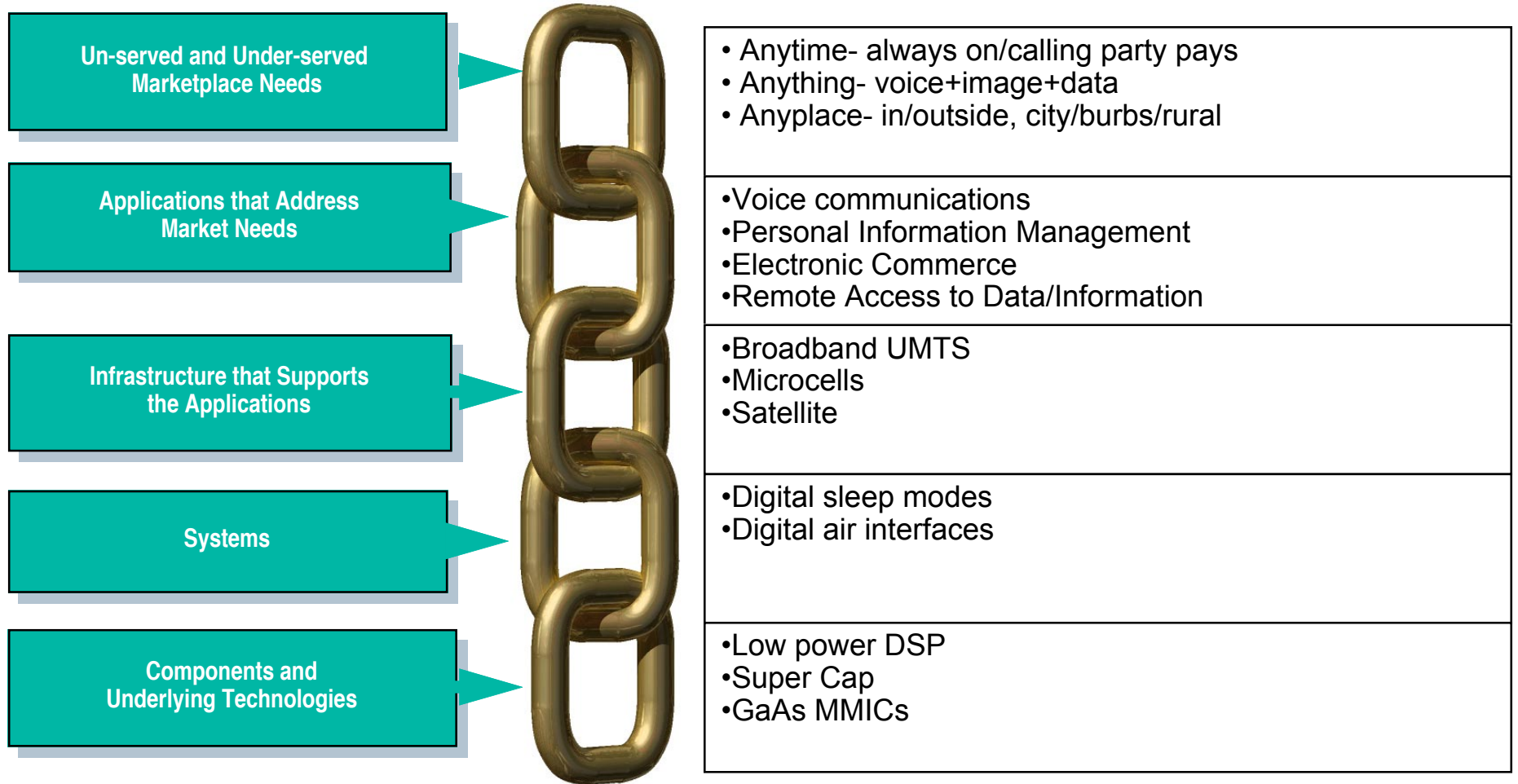
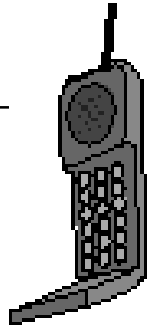
In summary this tool can be used as follows as part of the planning process.

- Brainstorm at each level of the food chain
- Identify the stakeholders at each level- who will win/who might lose
- Identify the barriers and drivers:
  - Economic
  - Structure
  - Social
  - Regulatory
- Link the technologies at the bottom up through the food chain to the needs
- Identify any gaps/missing links
- Consider both the external market drivers or actions under control of IDCC to predict the timing of the links closing and develop strategies that align with the timing and resources available



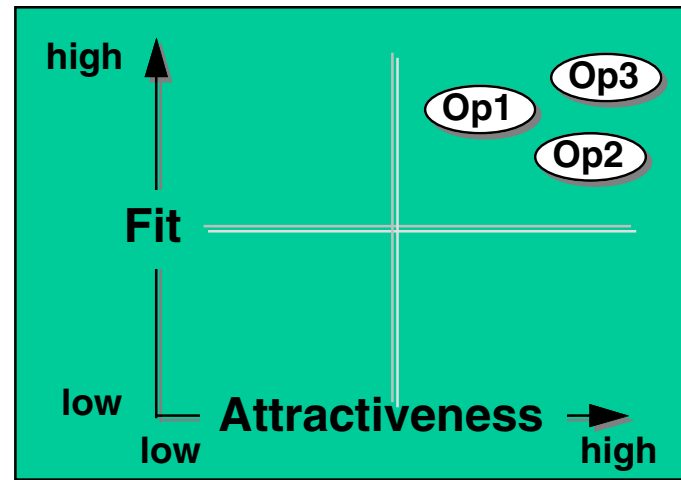
## Technology Planning Identify Key and Pacing Technologies/Example

This analysis leads to some specific technologies which can be the subject of further investment.



**Each client has their own list, but a general list of criteria include:**

- Technology expertise
- Customer base
- Operational synergies
- Intellectual property base
- Alignment with strategy
- Alignment with culture
- Other assets?



- Market size potential
- Growth potential
- Maturity
- Competitive intensity
- Start time
- Barriers to competitive entry
- Available partners