

Animal Protein Sector: Opportunities & Challenges

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Overview

- Portends in India's meat consumption
- Where the animal protein sector is heading?

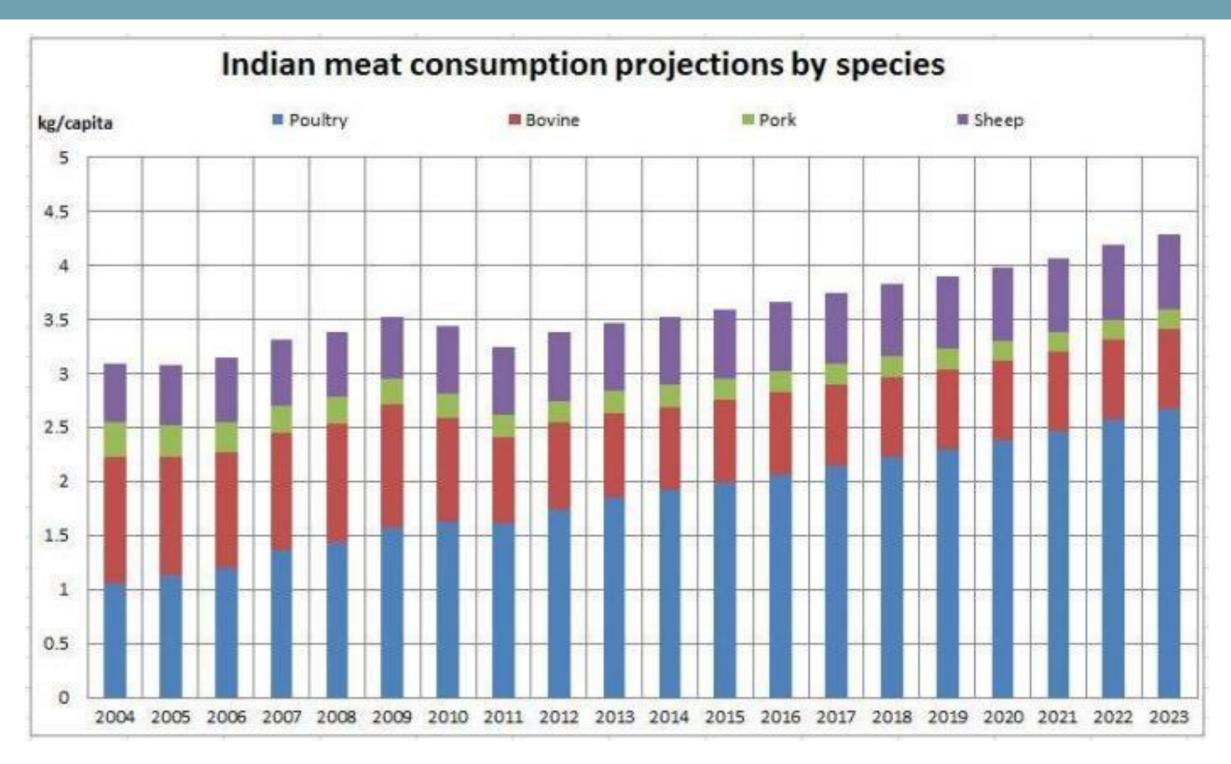
Opportunities or Challenges?

- LTO, Public Perception & Regulatory environment
- Sustainability Borrowed ideologies
- Consumerism Evolving Preferences, Digital disruption
- Alternative proteins Fad or a serious competition or complementary

Key takeaways

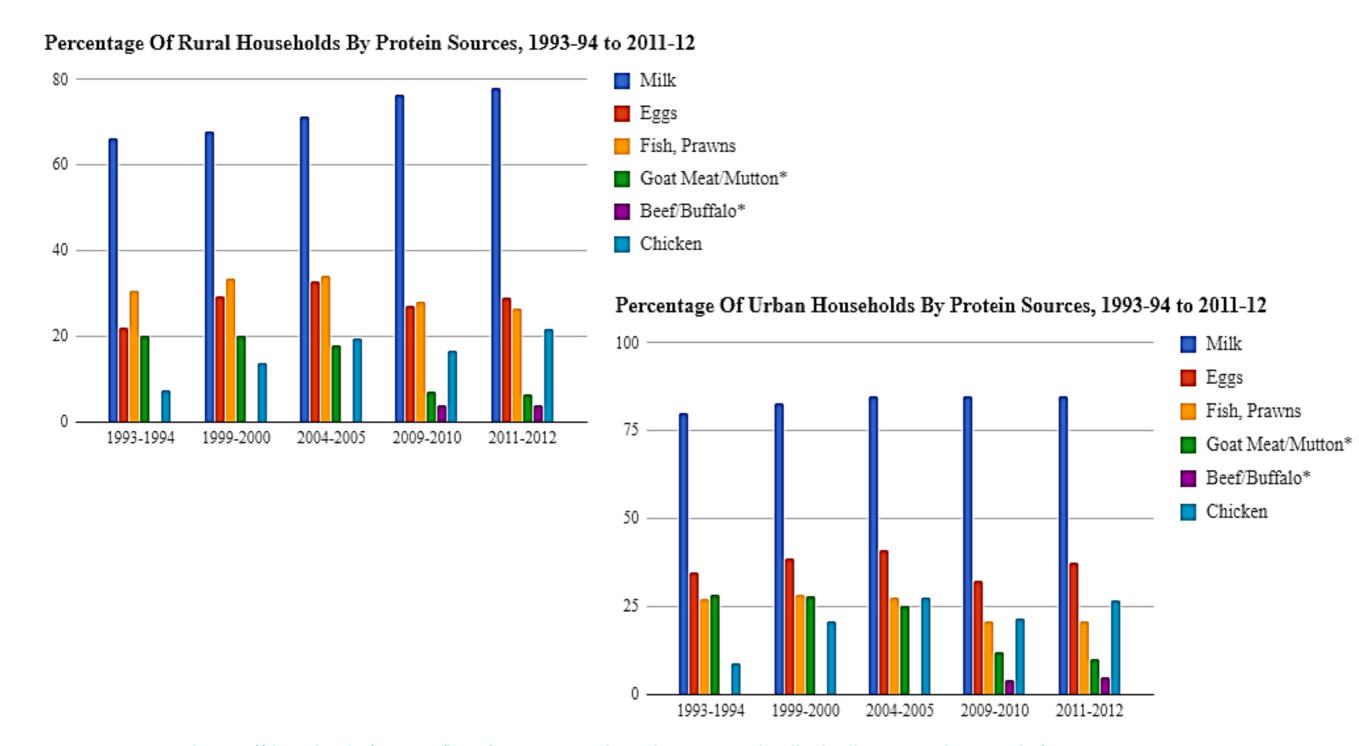


India's meat consumption...





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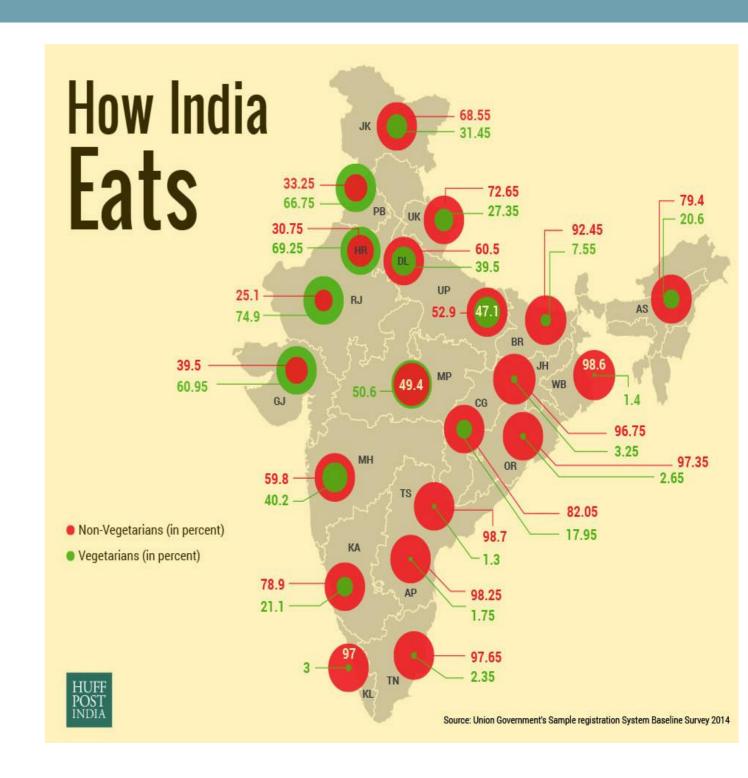


https://thewire.in/13854/beef-consumption-rises-marginally-indians-seek-protein/



Portends in India's meat consumption...

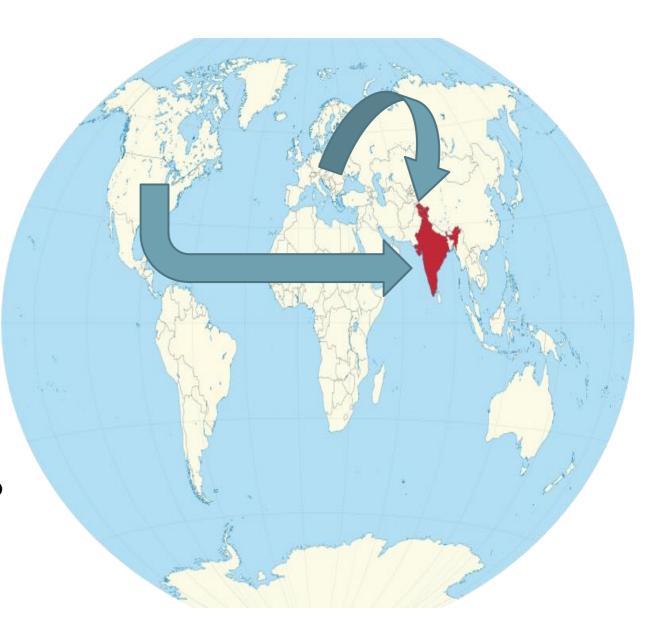
- Population growth
- Rising incomes
- Preference for high value foods
- Growing Out-of-Home consumption
- Evolving tastes & preferences
- Converging food intake trends
- Focus on "Health through Food"
- On the "Digital superhighway" and the list goes on and on....





India's animal protein sector Where it is heading?

- Increasing global convergence of
 - Regulatory frameworks
 - Food Quality & Safety standards
 - Sustainability concerns
 - Evolving product preferences**
- More demanding stakeholders
 - Regulators / Policy makers,Consumers, Civil Societies
 - Media Explosion of social media?
- More challenging business environment
 - Need to "earn" the industry's Licence to Operate or Freedom to Operate



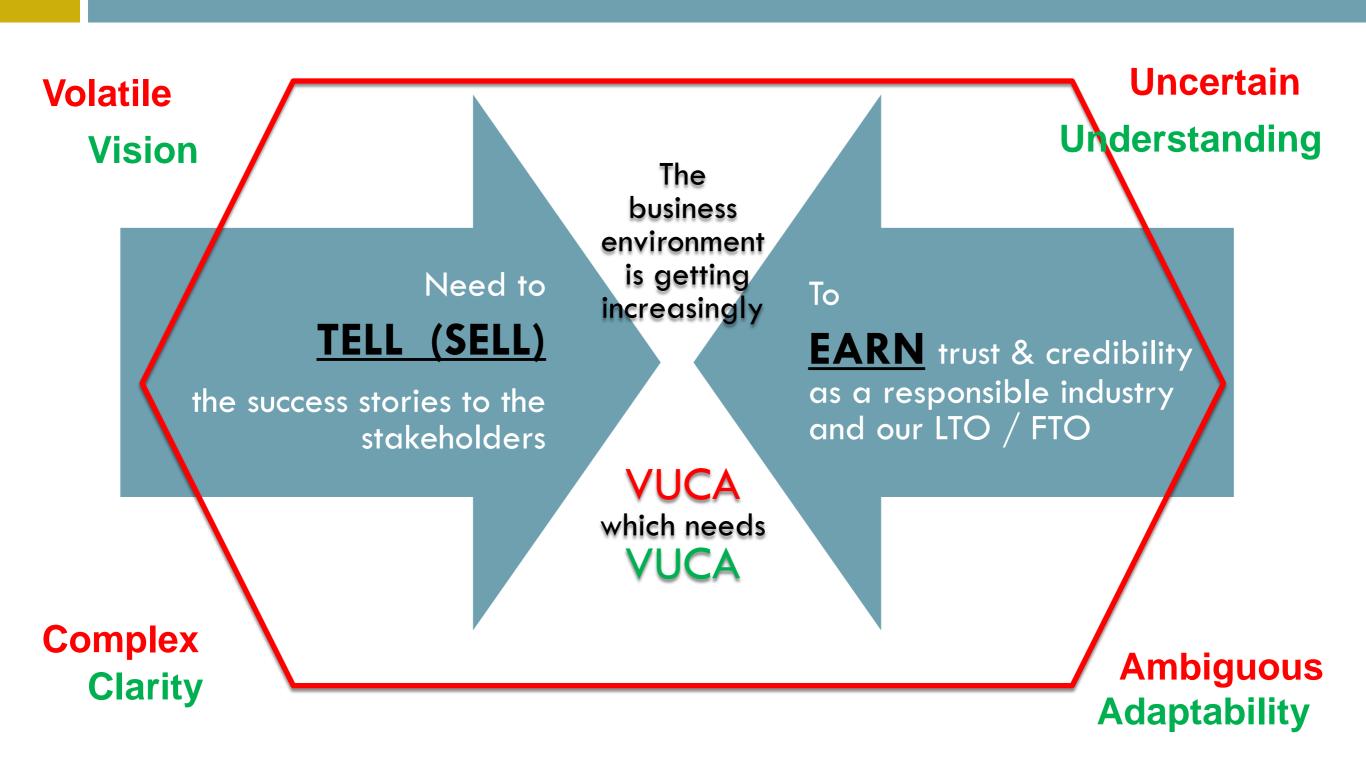


License to Operate

Public Perception & Regulatory environment

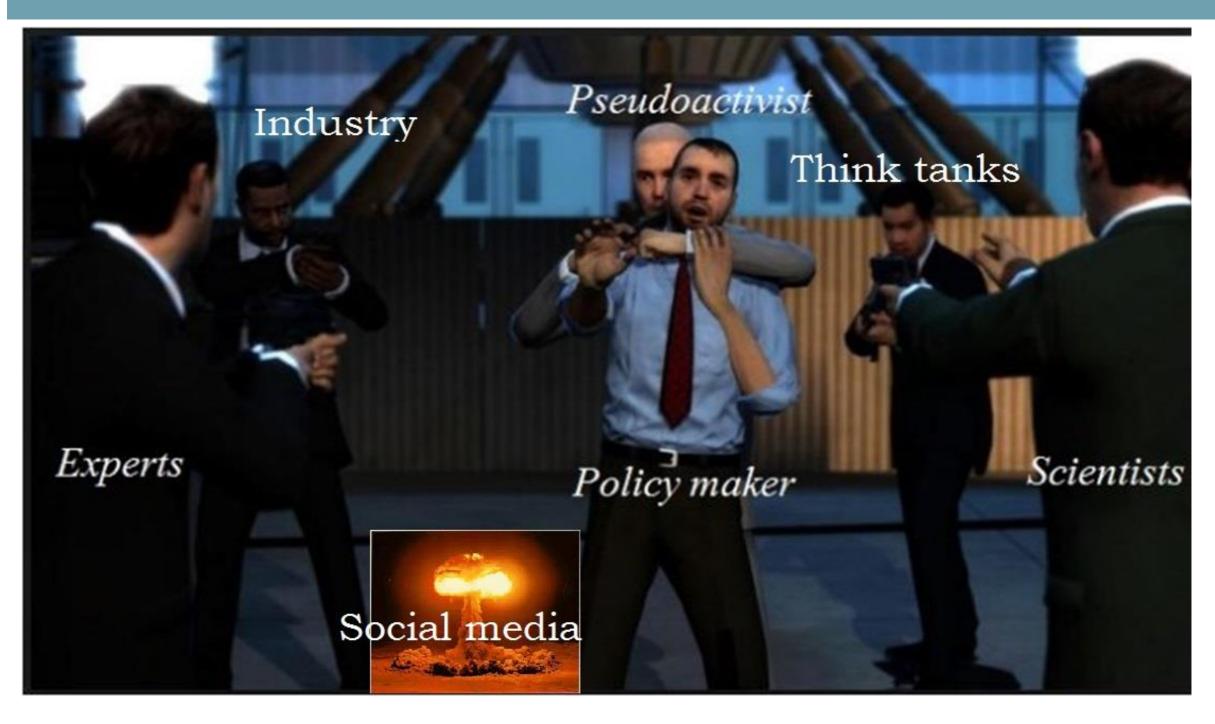


License to Operate Need for a Step Change in Thinking





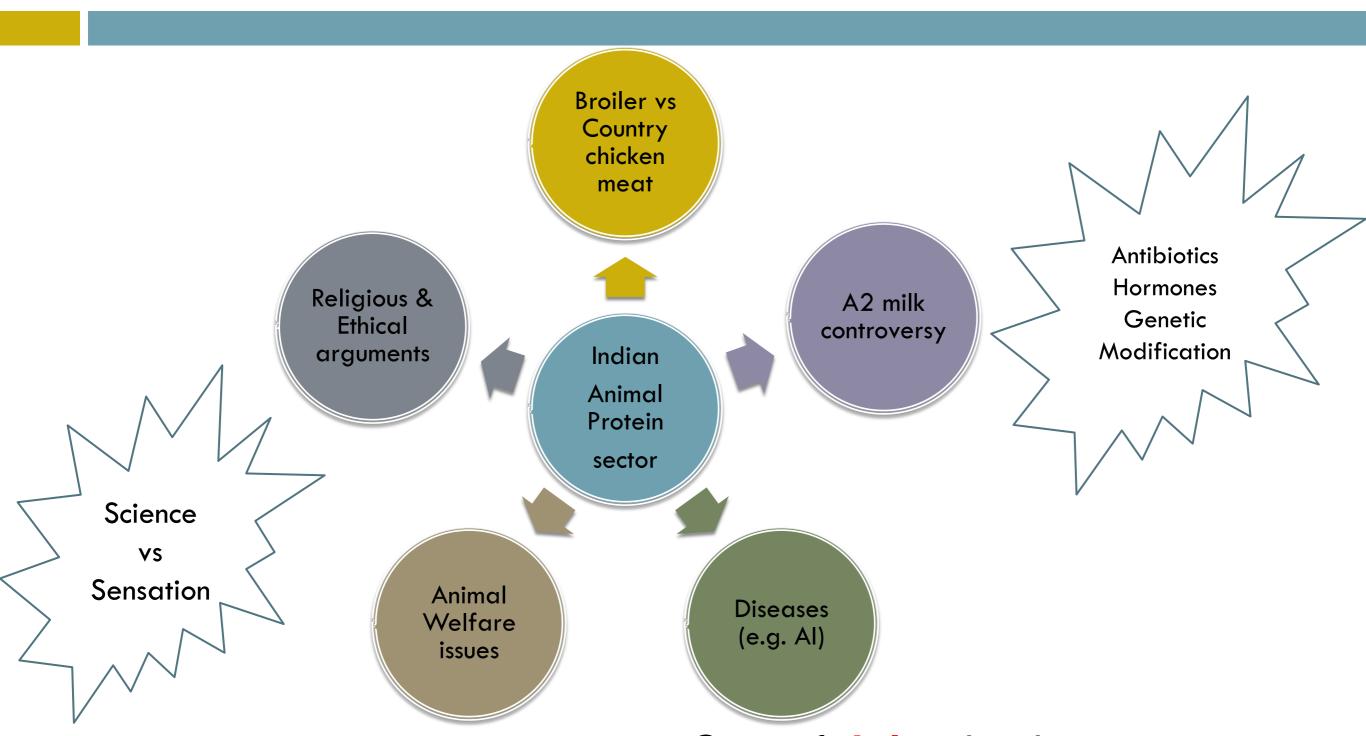
License to Operate Where is the influence coming from?



No industry is immune from negative public perception Any sector can be "made" sensitive...



License to Operate Being proactive: Benefits & Costs



Its no longer a discussion on Cost of doing business...
but Cost of losing business...

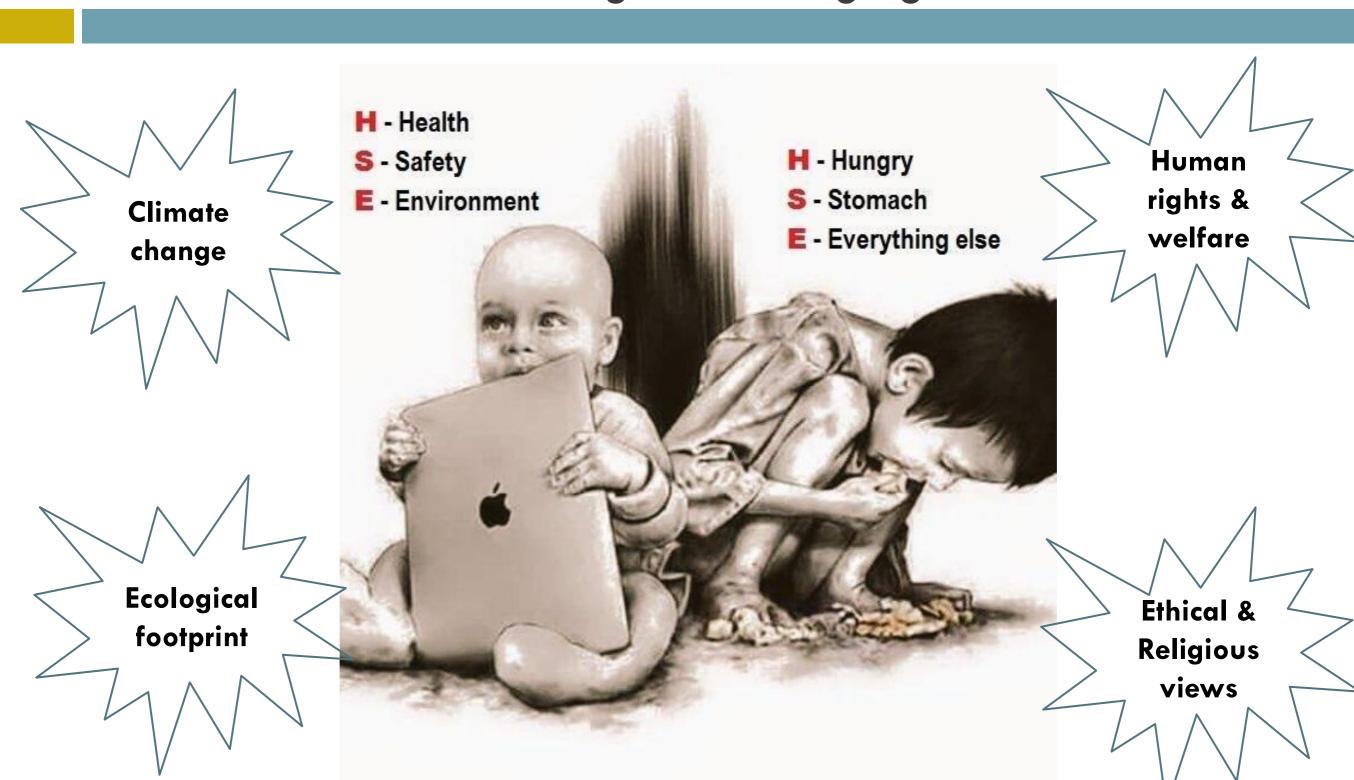


Sustainability

Borrowed ideologies, Evolving concerns



Sustainability Borrowed ideologies, Emerging concerns





Sustainability Borrowed ideologies, Emerging concerns

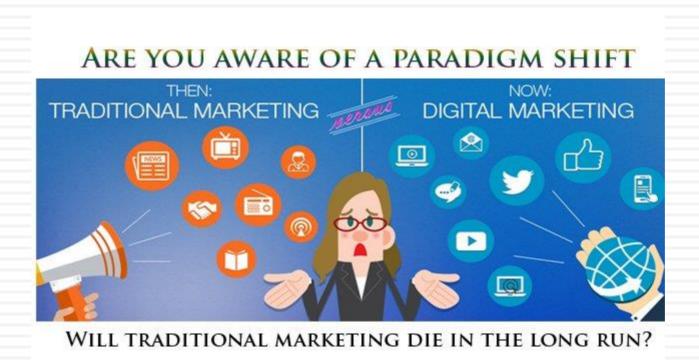






Consumerism

Evolving preferences, Digital disruption

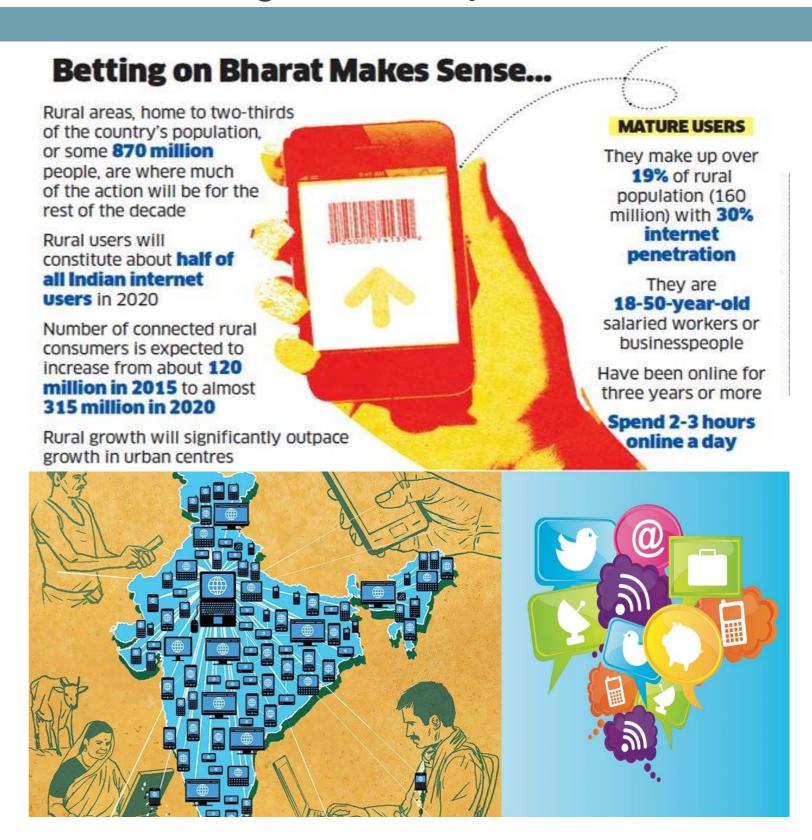




Consumerism Evolving preferences, Digital Disruption

Blurring Urban – Rural divide

- Convergence of food preferences and behaviour
- Growing e-commerce (e.g. food delivery)
- Feast-on-the-Go, RTE, RTC...
- At home & Out-of-Home consumption
- Moving on from haats & melas to smartphones & gadgets
- Increasing clamour
 - Information overload
 - Trust deficit
- Who wins?
 - Proactive, Authentic, Creative
 - Responsive with ears on the ground
 - Last-mile reach





Consumerism Evolving preferences, Digital Disruption

Mobile as the primary device for internet

Urban - 77%

Rural - 92%



Digital Superhighway...

- Entertainment
- Business / Communication
- Information / Education

Internet user base

(Oct 2016, million)

Urban - 263

Rural - 157



Consumerism Is the Indian animal protein sector ready?

Supply side

- Production
 - Raw materials availability, quality & prices
 - Technology upgradation Islands of success?
 - Biosecurity, Food safety
 - Unorganized sector The uncontrollable beast?
- Investing in value chain infrastructure
 - Processing & value addition, storage & distribution
- Innovations through investing in R&D
 - Sustainable ingredients (e.g. alternatives for antibiotics, protein replacements like pulse fractions), processes and reducing eco-footprint
 - New product offerings matching consumers' tastes& preferences
- Industry-level information
 - Industry data- availability & reliability
- Nurturing future industry leaders
 - Investing in skill development

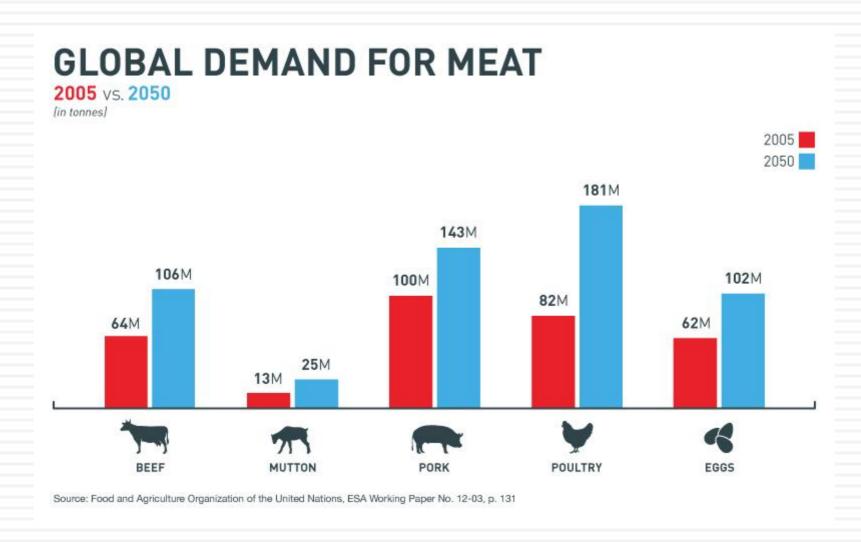
Demand side

- Consumer education
 - Promoting awareness on nutrition & health aspects
 - Busting myths & negative press
- Regulatory environment
 - Relatively less (yet unpredictable)
 - Scientific and evidence-based
- Expanding exports & trade
 - Conformance to global standards on food safety & quality
 - Competitiveness



Alternative Proteins

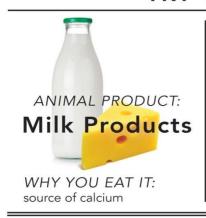
Fad / Serious competition / Complementary?





Alternative Proteins Fad or a serious competitor?

TRY THIS - NOT THAT



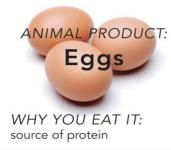














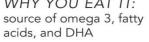
These foods are also very high in calcium.





TRY: Beans, Tofu, and Lentils. These foods are good sources of vegetarian protein. Plus, they are low in cholesterol. (One egg contains as much as 220mg of cholesterol!)











TRY: Flaxseeds, Walnuts, and Savi Seed. Omega 3, fatty acids, and DHA can also be found in these foods.





What is driving?

- Health concerns?
 - Emerging NC diseases (<u>anti-obesity</u> <u>protein</u>)
- Environmental concerns
- Technological innovations
 - Pulse protein fractions (incl. Soy for human consumption)
 - Lab grown meat
 - Insects (incl. Silk-worm), Algae
- Ethical / Religious concerns?
- Celebrity endorsements?
 - Think tanks (WEF, WHO)
 - Investors



Alternative Proteins Compete or Complement?

The three innovation areas for *immediate* action are:

- Increasing the proportion of plant-based protein consumption with consumers
- Scaling up a sustainable feed innovation to meet the demand for animal protein
- Closing the protein nutrient loop (for example, reducing waste rich in protein by finding new ways to feed it back into the production cycle)

The three innovation areas for *future* action are:

- Developing indigenous plants as protein sources for local communities
- Scaling up sustainable aquaculture for food and animal feed
- Restoring soil health

We believe that the growing demand for animal-based food can only be met using **feed produced sustainably**. To deliver this, alternative proteins in feed must be widely used. Feed Compass is critical for reaching a shared vision of feed fit for the future. ##

DR. THOMAS KAUFMANN SVP SUSTAINABILITY DEVELOPMENT NUTRITION, EVONIK NUTRITION & CARE GmbH



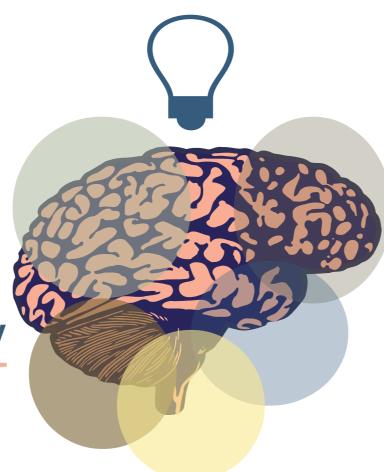
Key Takeaways

Industry's LTO

- Proactive engagement with all stakeholders
- Shaping public perceptions and regulatory frameworks
- Cost of doing business vs Cost of losing business

Sustainability

- No longer a good-to-have thing
- Commercial decisions are increasingly influenced
- Growing expectations from regulators, civil society and consumers
- Proactive initiatives pay off in the long run



Alternative proteins...

- Need not be competing but can complement
- Driven by the holistic view on food & nutritional security and environmental sustainability

Consumerism

- Evolving preferences, driven by mobile, retail and e-commerce revolutions
- Blurring rural-urban divide
- More information, more clamour

Competitiveness

- Joint action & advocacy by all stakeholders
- Adopting best practices with investments in R&D
- Compliance with local & global standards
- Innovations at every step in the value chain



Thanks