

Intrinsic Motivation of Trained Panelists

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Background

- Trained panelist motivation is an important factor to consider in sensory evaluation
- Limited knowledge about panelist motivation within sensory science
- Application of motivation research from psychology, education and sport science fields to sensory science



Purpose of Research

- What were the initial and subsequent drivers that motivated people to become and remain trained panelists?
- Are trained panelists extrinsically or intrinsically motivated?
- What differences in motivation were found between external panelists and internal panelists?
- What differences in motivation were found between new panelists and experienced panelists?

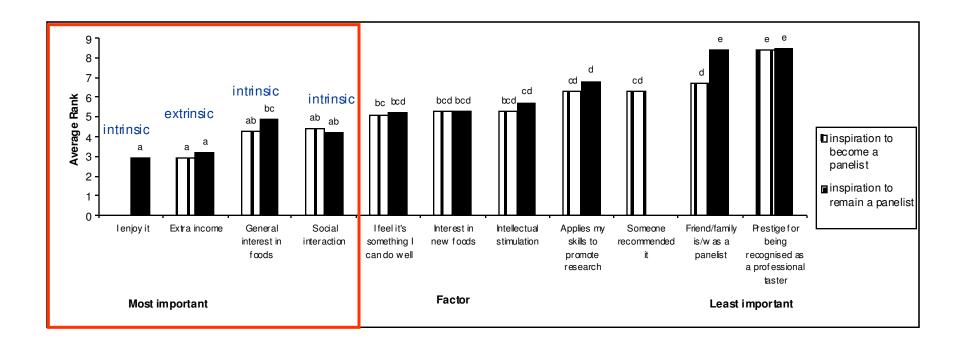


Survey #1

- What factors inspired people to become panelists and what factors motivated them to remain panelists
- Seven trained panels were surveyed (n= 74). Panelist age ranged from 25 to 65 years, and trained panel experience ranged from 1 year to more than 10 years.
- The panelists were presented with a range of intrinsic and extrinsic factors and asked to rank them in order of importance



Survey #1 - Results





Survey #2 - IMI

- Measured trained panelists' intrinsic motivation using Intrinsic Motivation Inventory (IMI)
- IMI is a method of gauging a participants' interest/enjoyment, perceived competence, value/usefulness, felt pressure and tension, and perceived choice while performing a given activity
 - Deci and Ryan (1985, 2000)
- The IMI items are often modified slightly to fit specific activities (such as participating in a trained panel)

For each of the following statements, please indicate how true it is for you.

4. While I'm doing panel work, I think about how much I enjoy it

not at all	somewhat	very true			
true	true				
1 2	3 4 5	6 7			

5. I do not feel at all nervous about doing panel work

not at all	somewhat						very true			
true					true					
1	2	[3		4		5	6		7

6. I believe this panel work is of some value to me

not at all		S	very true			
true			true			
1	2	3	4	5	6	7

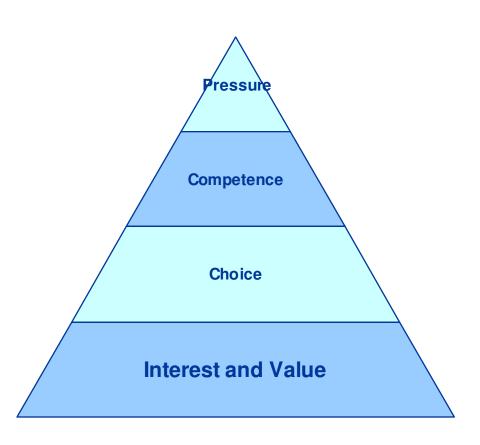
7. I think I am pretty good at panel work

not at all		ver	very true		
true		true			
1	2	3 4	5	6	7



Survey #2 – Results

- Factor analysis showed that there were four main factors:
 - Factor 1 (29.2%) *Interest* and value had the largest influence on panelist's intrinsic motivation
 - > Interest and value are usually the most important parameters that sustain intrinsic motivation (McAuley et al., 1989).
 - Factor 2 (17.4%) choice
 - Factor 3 (14.2%) *competence*
 - Factor 4 (8.4%) pressure





^{*}Seven trained panels were surveyed, comprising panelists working for five companies/universities in four countries (n=108).

Internal vs. External panelists

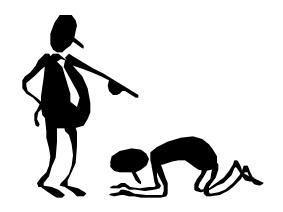
- Compared to internal panelists, external panelists found panel work:
 - more interesting
 - more fun
 - more enjoyable
 - felt that panel work had more value and was more beneficial to them
 - external panelists thought they were better at their work and more skilled than internal panelists
- These are all feelings that may contribute to higher quality of data and pride in their work





Internal vs. External panelists

- Compared to external panelists, internal panelists felt they had less choice about doing their job (panel work) than external panelists did
- This result might be a consequence of their mandatory conditions of employment
 - Lack of choice reduces their perceived autonomy and may contribute to a decrease in their intrinsic motivation





Years of Experience – Key Trends

1 year or less

 lower opinion of their personal competence and satisfaction with their performance compared to other experience levels



Need to focus on giving new panelists the skills required to build their competence

2-4 years

no significant concerns



5-7 years

 enjoyed their jobs the least compared to other panelists (but still felt competent)



Need to make the job interesting and give panelists variety to increase job enjoyment



Years of Experience – Key Trends

8-10 years

- felt skilled at panel work and were more satisfied with their performance compared to panelists with less experience
- less likely to agree that panel work was of some value to them and that it was beneficial to them



Focus on helping more experienced panelists understand the value of their work

>10 years

- felt they were the most skilled at panel work and that they did their job well compared to all other experience levels
- most likely to agree that panel work was of some value to them and that it was beneficial to them





Conclusions

- Intrinsic, as well as extrinsic, motivation is important to panelists
- Panelist experience and type of panel (internal/external) play a role in panelist motivation
- Panel leaders can foster intrinsic motivation by:
 - hiring panelists who are competent people (i.e. sensory acuity, follow instructions, don't make simple mistakes, listen, sensitive to group dynamics)
 - by creating a panel environment in which panelists understand the relevance of their work to the business
 - allow panelists to experience freedom and choice in what they do (nature of job does not allow for this, how do you build it in?)



Cooking Up Improved Intrinsic Panelist Motivation

Our Recipe for Success

Candi Rathjen-Nowak, General Mills Minneapolis, MN



1 Part **ENLIGHTENMENT**

2 Parts **COLLABORATION**

3 Parts BUSINESS CONNECTION

1 Part INSIGHT

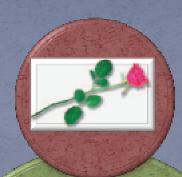
4 Parts **ACTION**

A Dash GOOD FORTUNE

1 Part PERSERVERANCE

Combine in the right order, watch closely, stir as needed

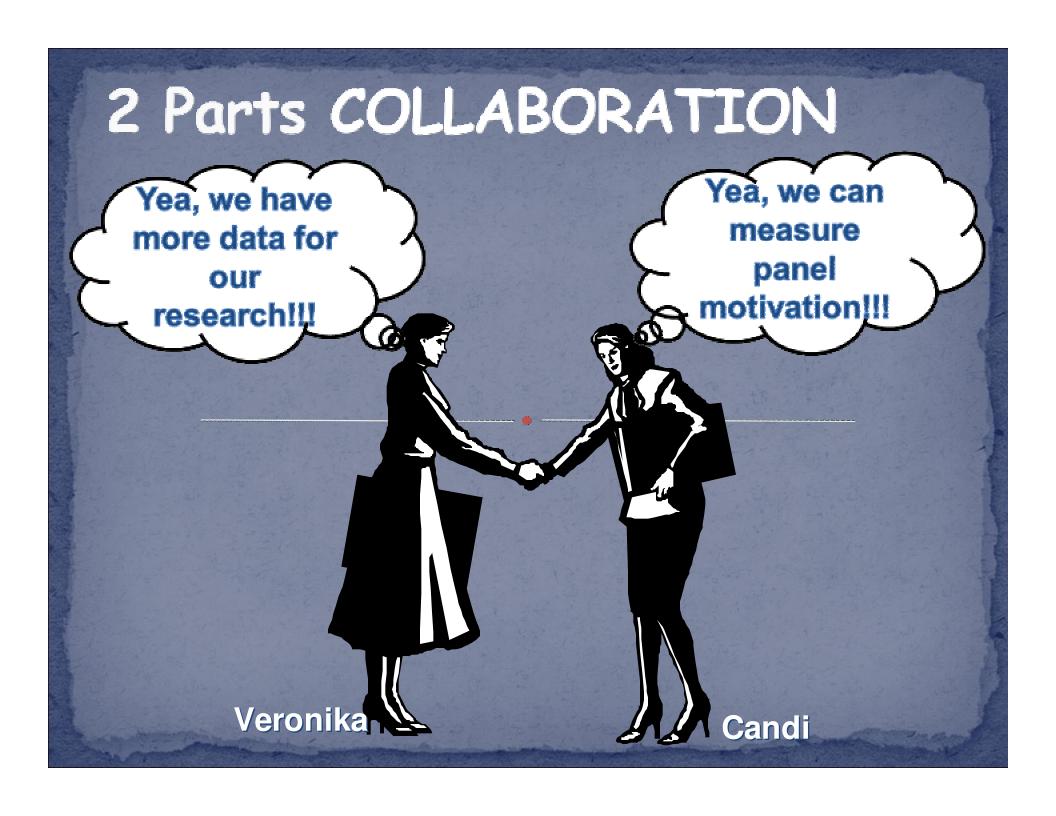
1 Part ENLIGHTENMENT



53% at Risk We Need the IMI







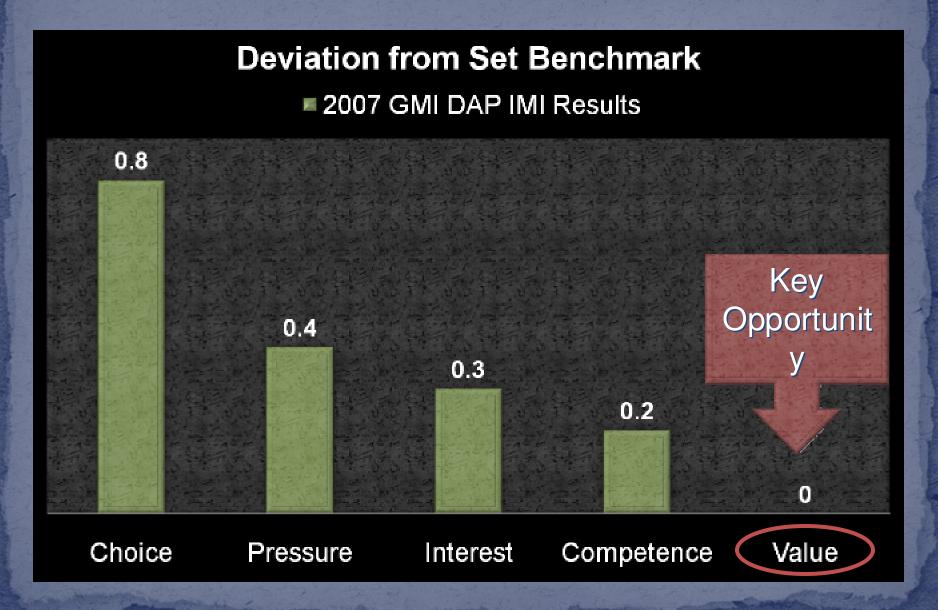
3 Parts BUSINESS CONNECTION

Externally Sourced Knowledge

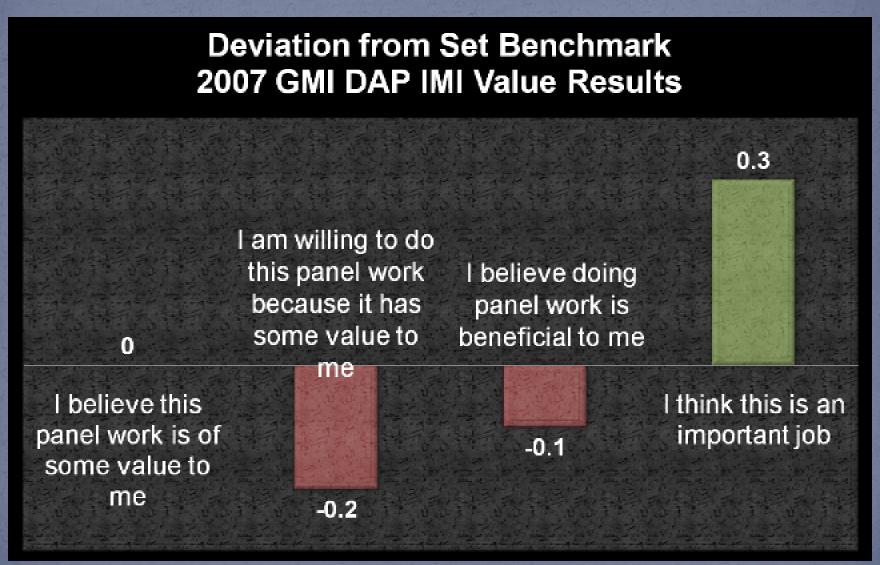
Trade-off/ Risk

Assessme nt Quantitativ e Climate Assessme nt

1 Part INSIGHT



Opportunity Knocks



4 Parts ACTION

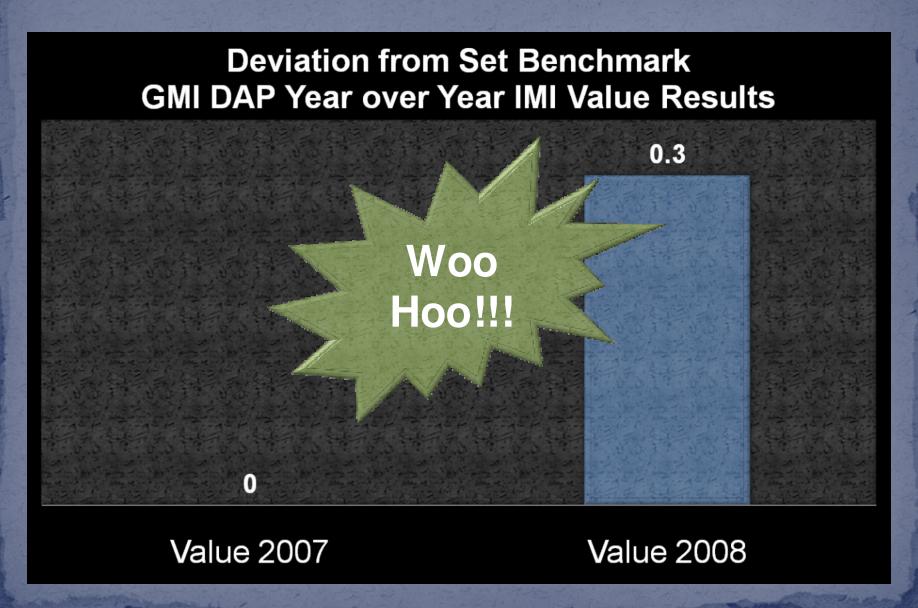
GMI Technical Community Education

Two-Way Feedback

Organizational Event Inclusion

Changing Corporate Policies

A Dash GOOD FORTUNE



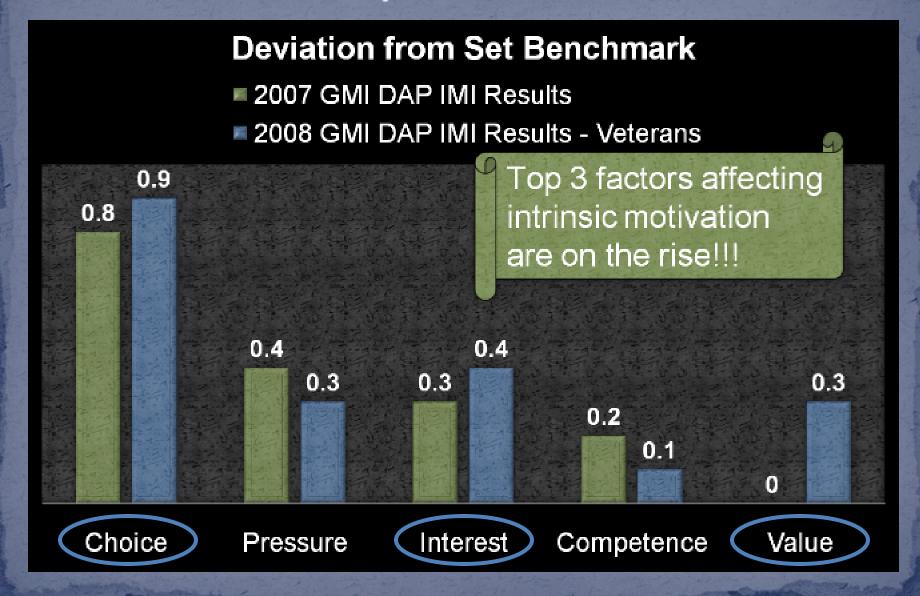
Focused Efforts Pay Off



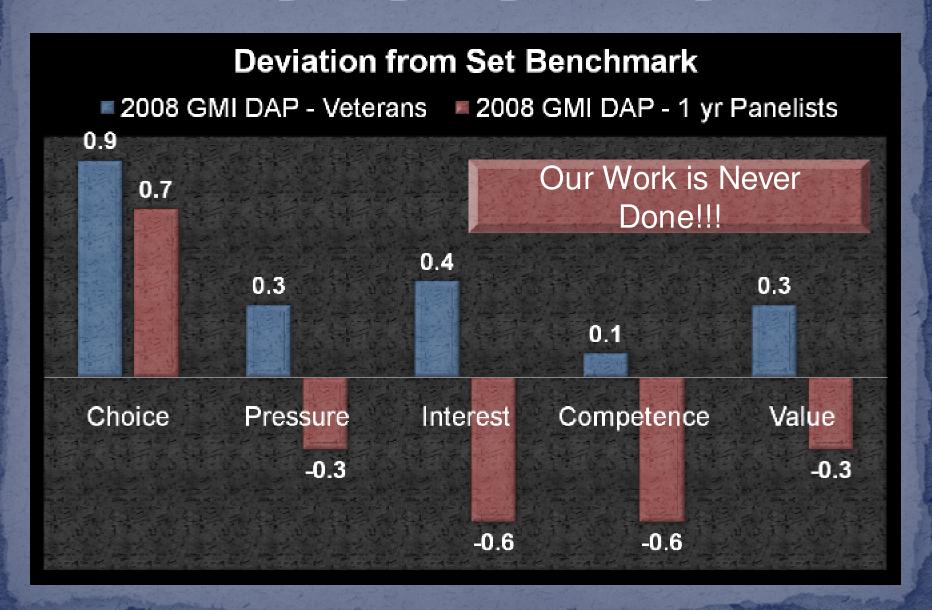


I believe this panel work is of some value to me I am willing to do this panel work because it has some value to me I believe doing panel work is beneficial to me I think this is an important job

In More Ways Than One



1 Part PERSERVERANCE





1 Part **ENLIGHTENMENT**

2 Parts **COLLABORATION**

3 Parts BUSINESS CONNECTION

1 Part INSIGHT

4 Parts **ACTION**

A Dash GOOD FORTUNE

1 Part PERSERVERANCE

Combine in the right order, watch closely, stir as needed, ENJOY!