Gender and Development in Philippine Science, Technology and Innovation Ecosystem

Rowena Cristina L. Guevara

Social Responsibilities of Science Gender Summit 10, May 26, 2017

Tokyo

Outline

- Introduction
- Factsheet on Filipino Men and Women
- Human Resource Development (HRD) for Science, Technology and Innovation (STI)
- Social Responsibilities of Science

President Corazon Aquino First woman President of the Philippines (1986)



President Gloria Macapagal-Arroyo Second woman President of the Philippines (2000)

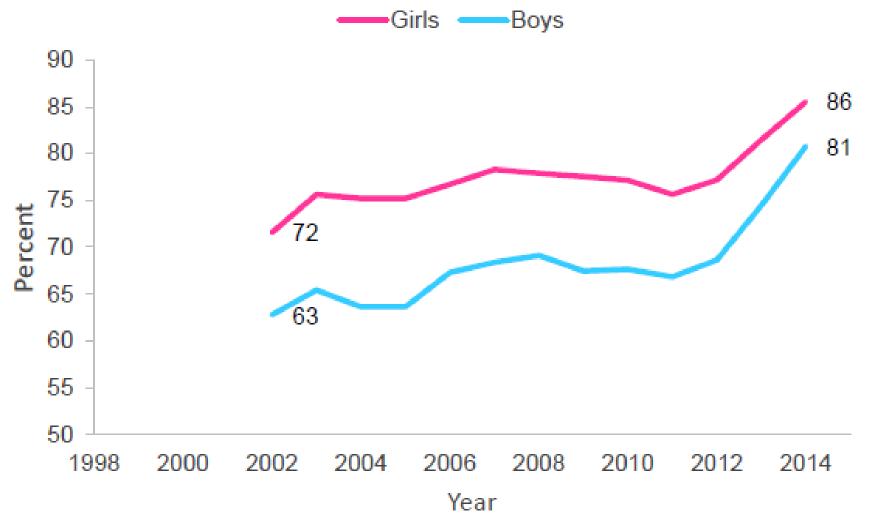


Sources: content.time.com, www.charleskeng.com, kahelkuting.blogspot.com

Seven (7) National Mandates

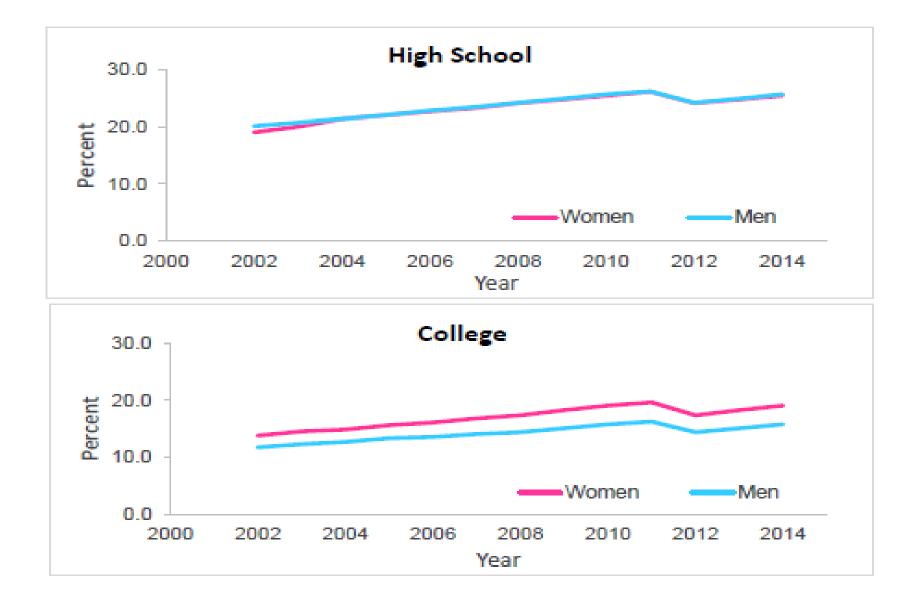
- 1. 1987 Philippine Constitution Section 14, Article II
- 2. Republic Act 6949 or National Women's Month
- 3. RA 7192 or the Women in Development and Nation Building Act
- 4. Executive Order 273 Philippine Plan for Gender Responsive Development (PPGD), 1995-2025
- 5. General Appropriations Act (GAA)
- R.A. 9710 "Magna Carta of Women" August 14, 2009
- 7. PCW Memorandum Circular 2011-01
- 8. Joint Circular No. 2012-01 of DBM, NEDA and PCW

Elementary Completion Rate 2002-2014



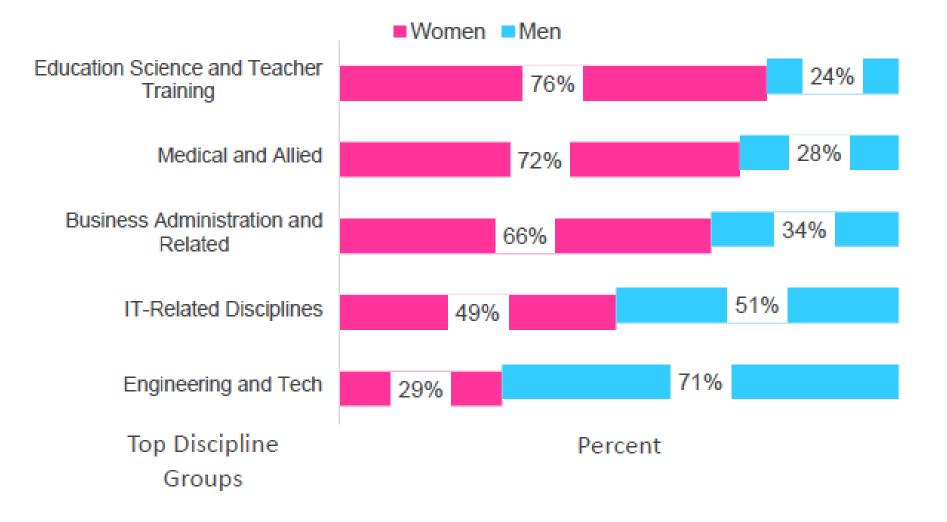
Source :Basic Education Information System (BEIS), Department of Education Note: No data for 2000-2001

Educational Attainment of Women and Men



Source: Labor Force Survey

Proportion of Graduate Women and Men by Top Discipline Groups AY 2013-2014



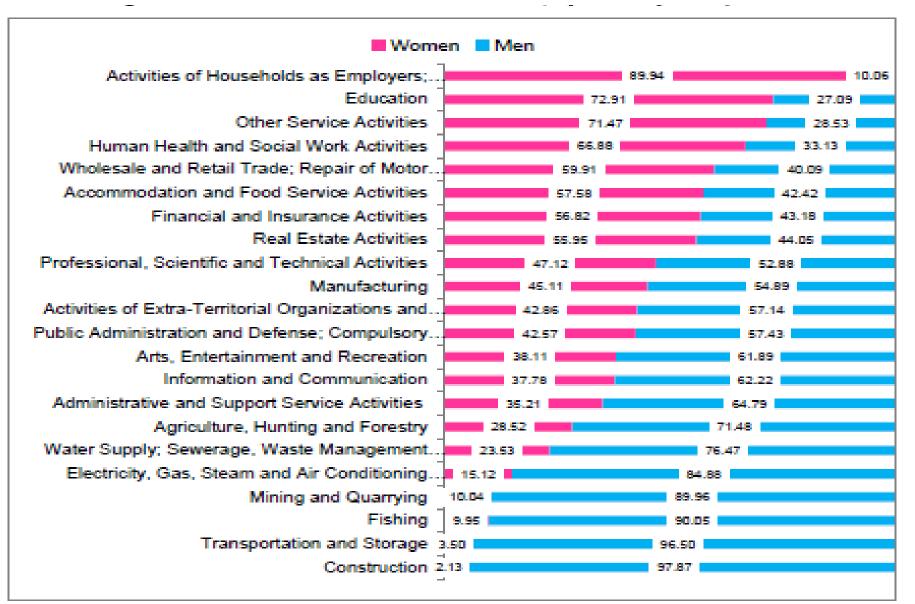
Source: Commission on Higher Education

Distribution of Women and Men, by Occupation Group (2014)

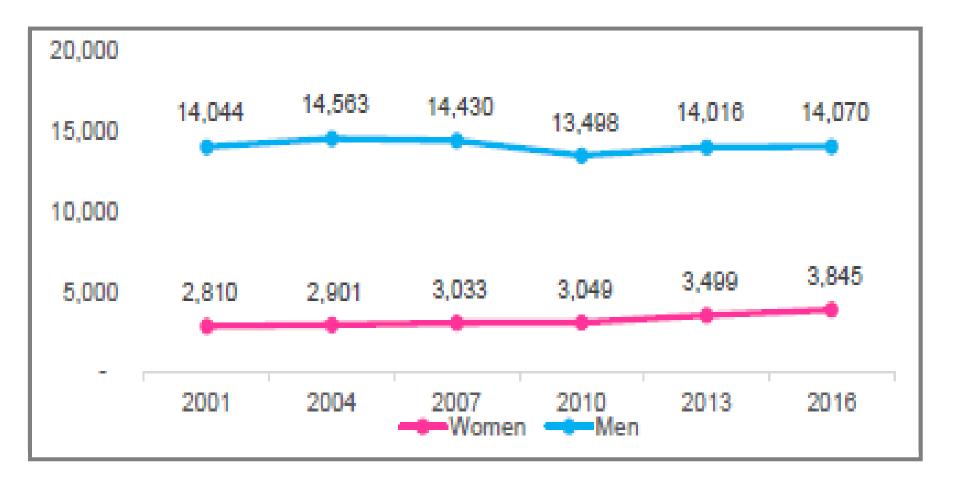


Source: Philippine Statistics Authority

Distribution of Women and Men, by Industry (2014)



Total Number of Elected Positions by Positions and Sex



Source: Commission on Election

Number of Judges, by Sex (2000 to 2015)



ERDT Program Leaders and UP College of Engineering Deans (2004 to present)

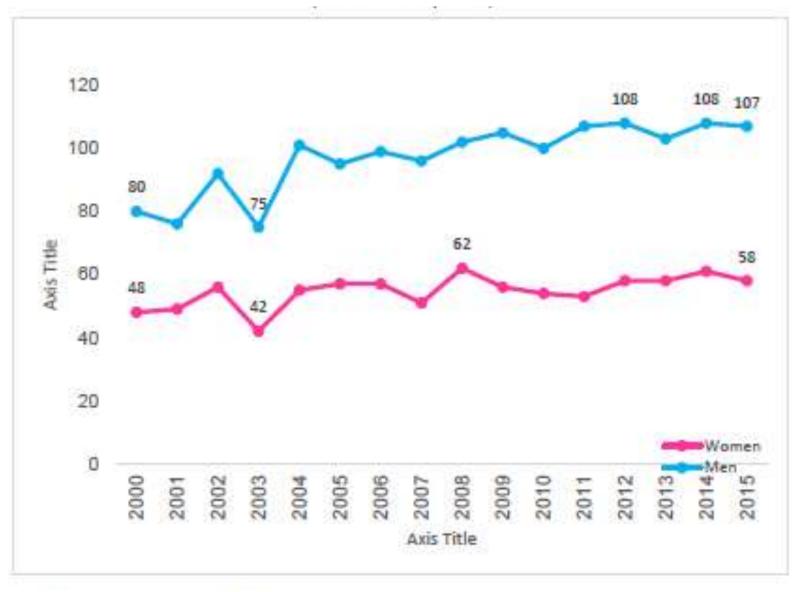


Average Annual Income, Expenditures and Savings (in pesos), by Sex of Household Head

| | 2000 | | 2003 | | 2006 | | 2009 | |
|-------------------------------|--------|--------|--------|--------|---------|---------|--------|--------|
| Item | Women | Men | Women | Men | Women | Men | Women | Men |
| | Amount | Amount | Amount | Amount | Amount | Amount | Amount | Amount |
| Average Annual Income | 86,703 | 85,144 | 98,091 | 91,769 | 197,629 | 167,013 | 91,769 | 100.0 |
| Average Annual Expenditure | 71,350 | 73,228 | 81,489 | 80,322 | 164,240 | 143,262 | 80,322 | 87.5 |
| Average Annual Savings | 15,354 | 11,916 | 16,602 | 11,448 | 33,390 | 23,750 | 11,448 | 12.5 |

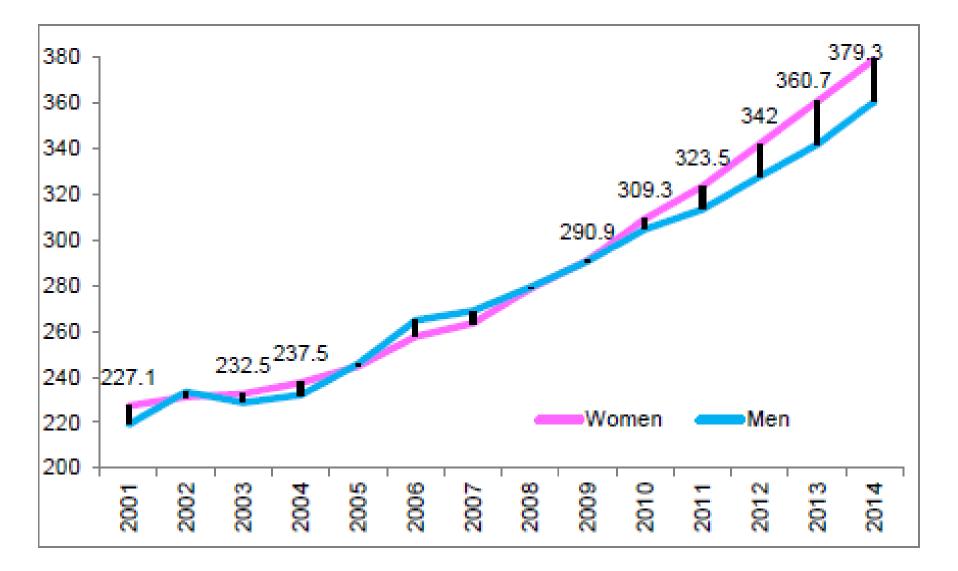
| | 20 | 12 | 2015 | | |
|-------------------------------|--------|--------|--------|--------|--|
| ltem | Women | Men | Women | Men | |
| | Amount | Amount | Amount | Amount | |
| Average Annual Income | 86,703 | 85,144 | 98,091 | 91,769 | |
| Average Annual Expenditure | 71,350 | 73,228 | 81,489 | 80,322 | |
| Average Annual Savings | 15,354 | 11,916 | 16,602 | 11,448 | |

Average Remittance per Overseas Filipino Worker in thousand pesos (2000 to 2015)



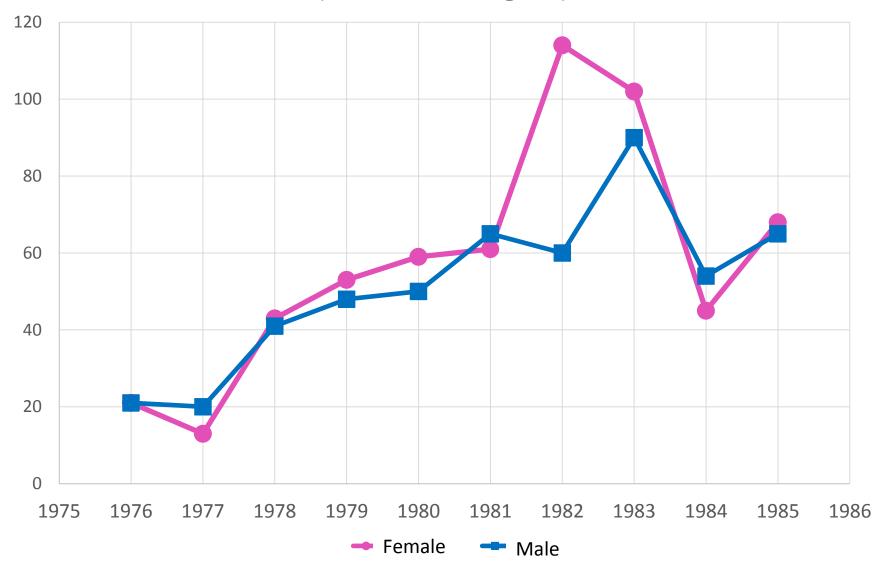
Source: Philippine Statistics Authority

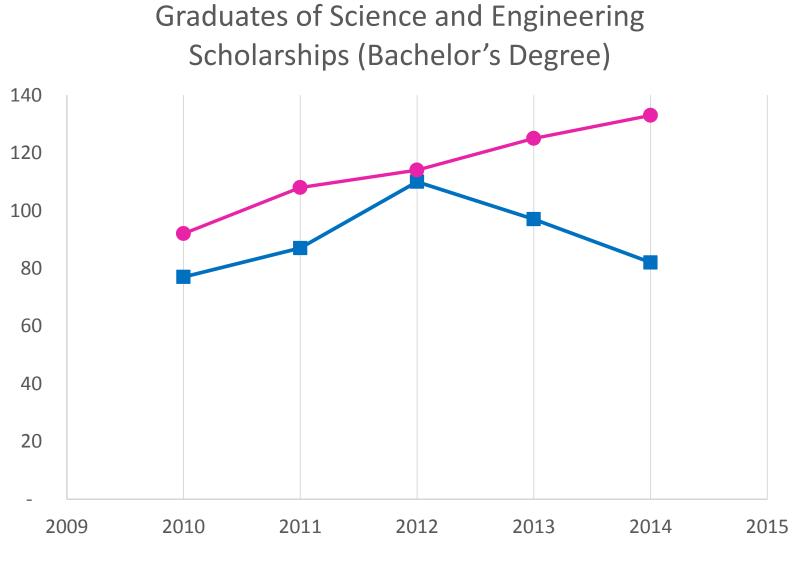
Average Wages of Women and Men (2000 to 2014)



Source: Philippine Statistics Authority

Graduates of Science and Engineering Scholarships (Bachelor's Degree)

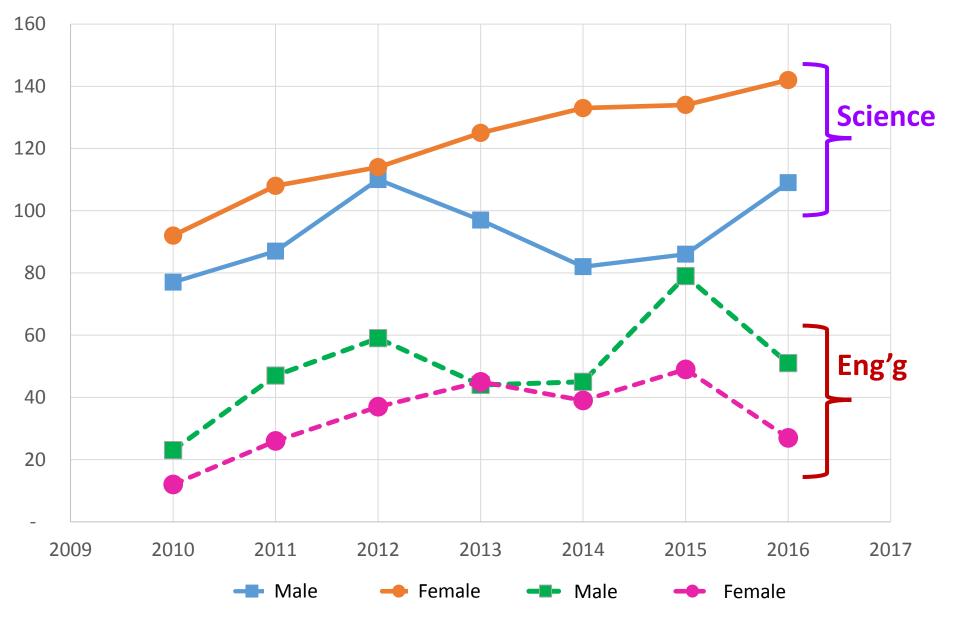




Male

Female

Graduates of MS in Science and Engineering Scholarship



DOST R&D Project Leaders

| Sectors | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | |
|-------------------------------------|------|------|------------|------|------|------|------|------|------|----------------|
| | 9 | 6 | 7 | 11 | 25 | 14 | 12 | 13 | 3 | |
| BASIC Research | 18 | 26 | 14 | 10 | 28 | 22 | 24 | 20 | 11 | 63.37 % |
| Agriculture, Aquatic and Natural | 101 | 100 | 76 | 91 | 80 | 127 | 165 | 128 | 116 | |
| | 102 | 132 | 117 | 94 | 94 | 125 | 164 | 147 | 113 | 52.51% |
| | 1 | 6 | 12 | 13 | 6 | 8 | 11 | 12 | 17 | |
| Health | 2 | 2 | 7 | 8 | 5 | 6 | 5 | 9 | 10 | 38.57 % |
| Industry, Energy and Emerging | 68 | 113 | 122 | 144 | 64 | 93 | 137 | 101 | 101 | |
| | 43 | 89 | 123 | 96 | 77 | 68 | 95 | 70 | 63 | 43.43% |
| | 36 | 25 | 13 | 31 | 31 | 22 | 6 | 5 | 20 | |
| Others | 47 | 26 | 30 | 19 | 36 | 24 | 8 | 9 | 13 | 52.87% |
| | 215 | 250 | 230 | 290 | 206 | 264 | 331 | 259 | 257 | |
| Overall | 212 | 275 | 291 | 227 | 240 | 245 | 296 | 255 | 210 | 49.44% |

Legend: MALE, FEMALE

Gender mainstreaming in R&D







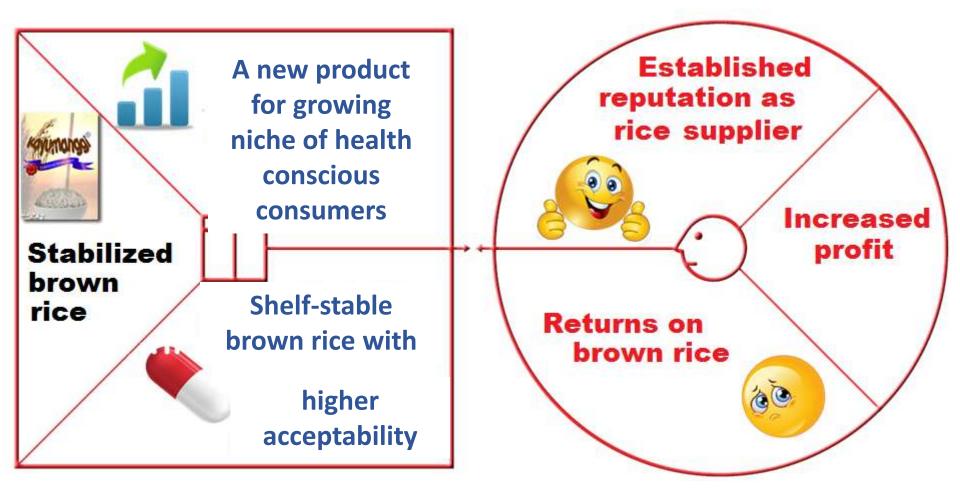




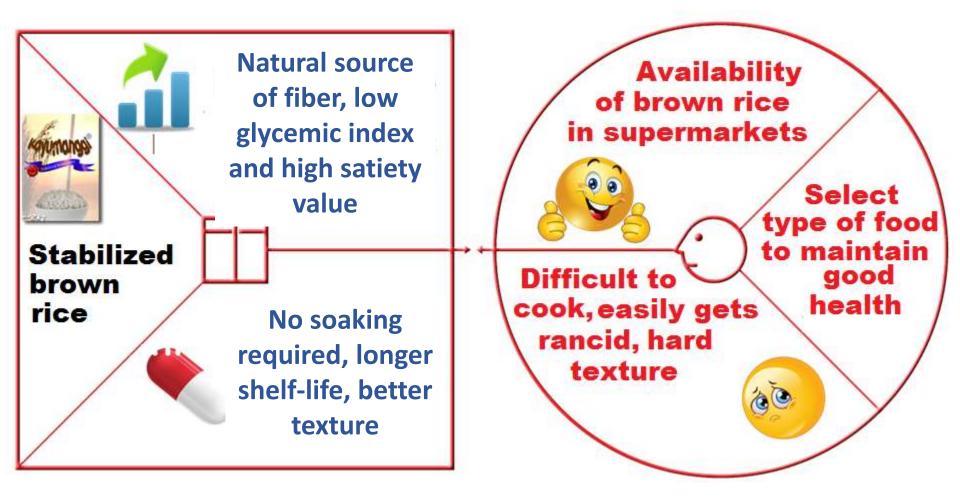
STABILIZED BROWN RICE = Healthy Food CHOICE + Business Opportunity

Engr. Rosemarie G. Garcia Department of Science & Technology Food and Nutrition Research Institute

VALUE PROPOSITION (Primary customers)



VALUE PROPOSITION (Secondary customers)



Stabilized brown rice is now in the market!!







ADAMSON UNIVERSITY



NATURAL Treatment
> Odor − FREE
> LOW Cost

- MINIMIZE Power
- NO ADDITIONAL Equipment
- NO SKILLED Manpower
- INSENSITIVE to
 SHOCK LOAD and pH
 BUFFER MINERALS

Dr. Mel Palencia

BEFORE VIGORMIN

AFTER VIGORMIN

PATENT APPLICATION: August 2014

Vigormin Pilot Plant Inauguration



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