WORKING AS AN END: THE IMPORTANCE OF WORK CAPABILITY IN SHAPING HUMAN DEVELOPMENT – An examination in Vietnam

Dai Duong

Ph.D. candidate, University of Missouri – Kansas City Lecturer, Vietnam National University of Agriculture, Vietnam *Atlanta, Georgia, January 5th 2019*



- 1. Introduction
- 2. The importance of work capability in shaping human development
- 3. Methodology
- 4. Result and Discussion
- 5. Conclusion

1. Introduction

- Amartya Sen's Capability Approach:
 Human development = an expansion of capabilities
 = an expansion of individual freedom
- Role of working in shaping human development?

HDR 15: working as a means for human development But, multiple social disciplines recognize **Working as an end in itself**

 \rightarrow neglecting this role causes an inadequate understanding and an incorrect evaluation of human development

1. Introduction

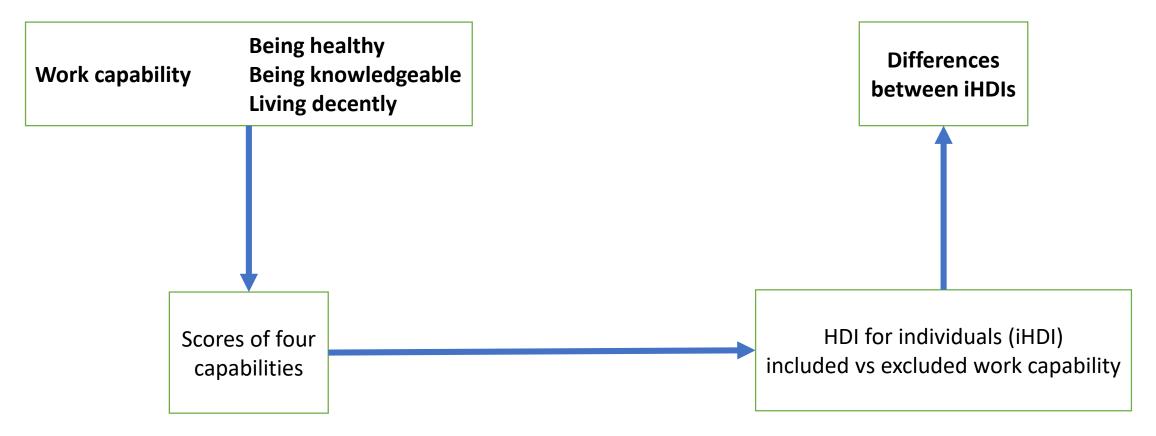
• Working as an end requires work capability:

a set of working activities that create income, either in monetary or non-monetary forms, and be feasible for an individual to achieve

- 2 aspects: feasible opportunities to join working activities (job opportunity) feasible control of performing such working activities (work autonomy)
- Trade-off work autonomy for wage and job security → the loss of work capability
 resulting from sacrificed work autonomy must be counted as a loss of freedom to work
 in particular and a loss of freedom in general, and eventually a loss of human
 development → integrating work capability into human development measure.

1. Introduction

• Using a Structural Equation Model (SEM)

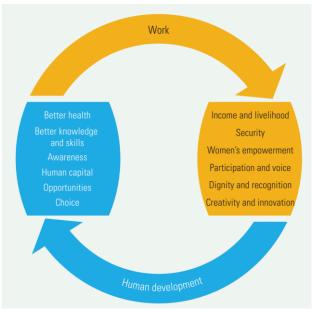


2. The importance of work capability in shaping human development

Well-being = f(capabilities) \rightarrow capabilities \uparrow = human development

• As both a means and an end of wellbeing, work capability is a basic freedom

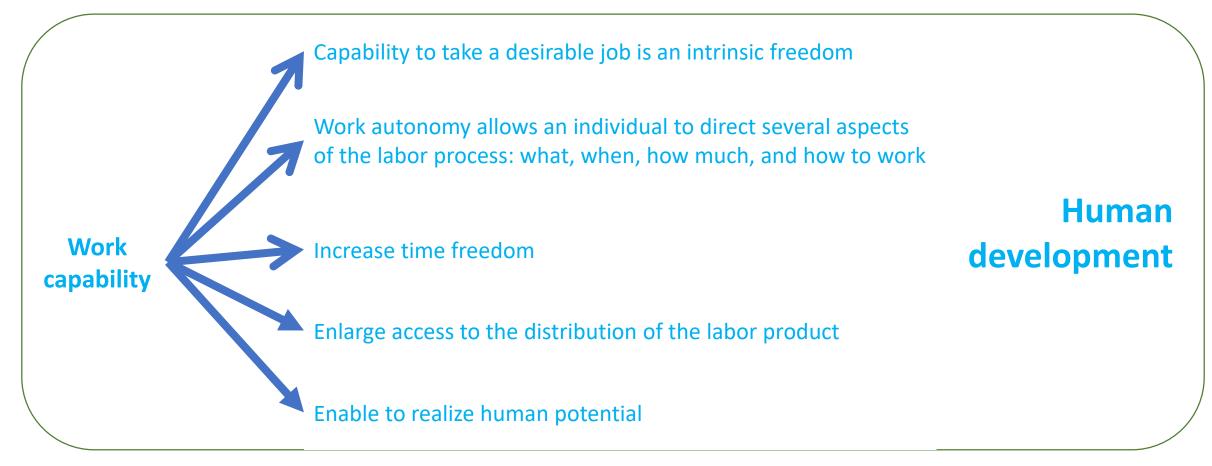
Economics vs Other social sciences (Psychology, Sociology...etc)



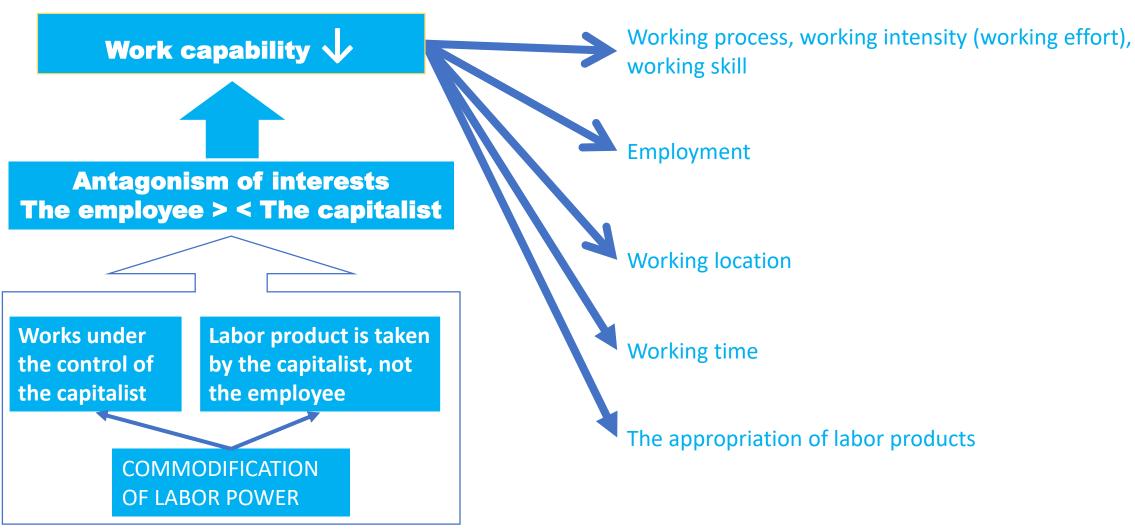


Psychological needs Social actions

The expansion of work capability is vital for the expansion of human development:

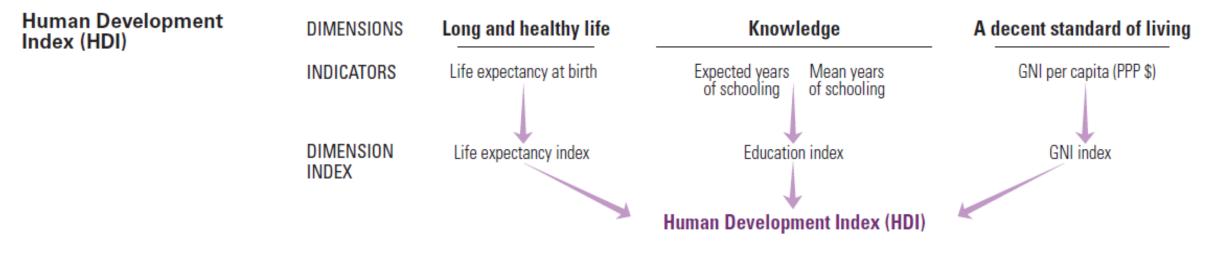


The oppression of work capability under the capitalist relation of production



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Work capability and human development measure



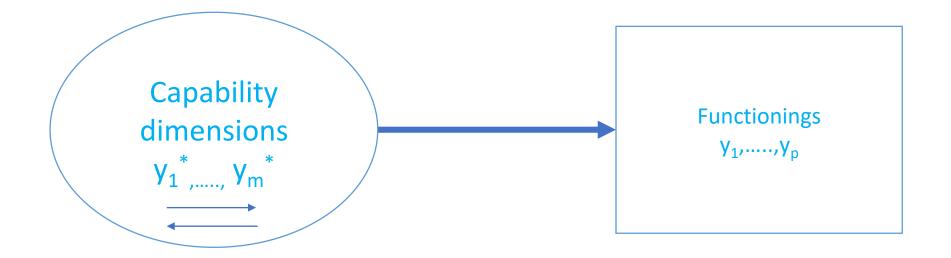
→ Neglect work capability
 → The current HDI may not reflect the degree of human development correctly

3. Methodology

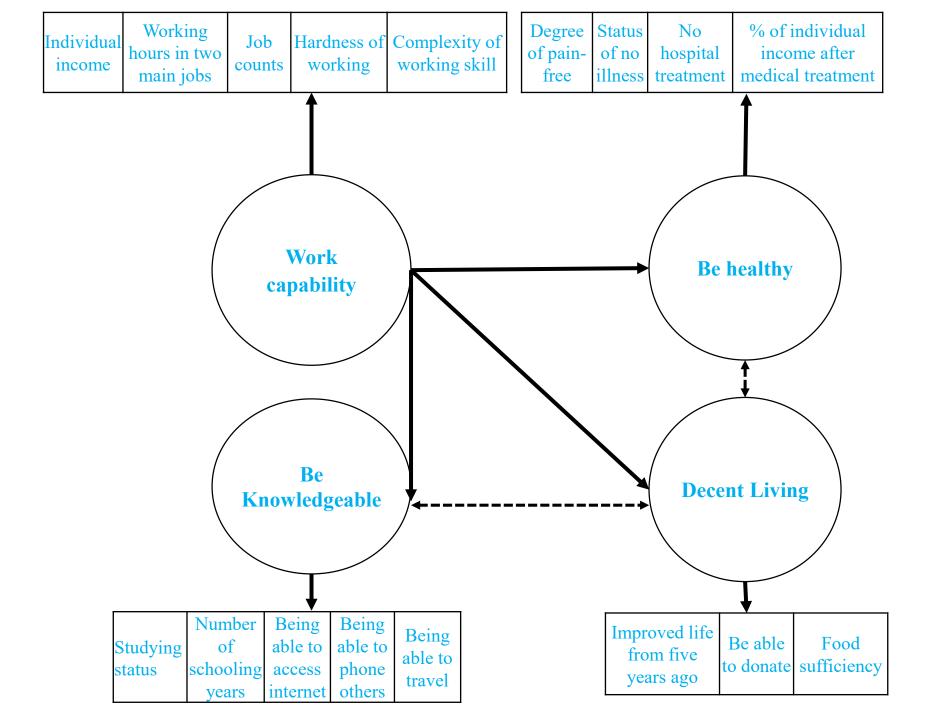
- Characteristics of capabilities and SEM
- Capabilities are abstract, multidimensional
- Capabilities are affected interdependently by other capabilities
- ightarrow Identify capabilities indirectly through manifested indicators

SEM handle the simultaneity, the unobservability, and multidimension of capabilities

Model specification

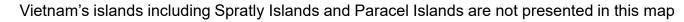


$$y_{3 \text{ capabilities,i}}^{*} = \gamma \gamma_{\text{work capability,i}}^{*} + \xi_{i}$$
(1)
$$y_{i} = \Lambda y_{i}^{*} + \epsilon_{i}$$
(2)



Data: Viet Nam Household Living Standards Survey

- every two years, at national level
- all groups of people including ethnicity, regions, religions, occupations, and others.
- 5875 observations remain after screening :
- Legal working age
- employed
- Nested data → Randomly select a working individual within each household





4. Result and Discussion The measurement part of the model

Indicators for each capability	Unstandardized Coefficient	Standard Error	z-value	P(> z)	Standardized Coefficient	R ²
WORK CAPABILITY						
Working hours in two main jobs	0.229	0.004	64.76	0	0.341	0.117
Complexity of working skill	0.833	0.007	115.575	0	0.833	0.694
Job counts	-0.612	0.01	-60.343	0	-0.612	0.375
Hardness of working	-0.395	0.004	-89.765	0	-0.48	0.23
Individual income	4.132	0.037	110.628	0	0.77	0.593
BE HEALTHY						
Degree of pain-free in the last year	0.171	0.007	25.656	0	0.626	0.391
Status of no illness in the last year	0.819	0.016	51.83	0	0.824	0.679
No treatment in hospital in the last year	0.863	0.015	57.113	0	0.869	0.755
Proportion of individual income remaining after medical treatment	0.359	0.005	68.281	0	0.456	0.208

The measurement part of the model

Indicators for each capability	Unstandardized Coefficient	Standard Error	z-value	P(> z)	Standardized Coefficient	R²
BE KNOWLEDGEABLE						
Studying status	0.152	0.028	5.539	0	0.241	0.058
Number of schooling years	0.182	0.005	37.913	0	0.644	0.414
Being able to access internet	0.62	0.013	46.727	0	0.98	0.961
Being able to phone others	0.261	0.015	17.612	0	0.413	0.171
Being able to travel	0.386	0.013	30.809	0	0.61	0.373
DECENT LIVING						
Be able to improve life from five years ago	0.2	0.02	10.022	0	0.314	0.099
Be able to donate	0.269	0.027	9.947	0	0.422	0.178
Food sufficiency (the ratio between individual effective income and food cost per member in family)	0.883	0.087	10.207	0	0.354	0.126

The structural part: The importance of Work capability to three basic capabilities

Effect from Work Capability to	Unstandardized Coefficient		z-value	P(> z)	Standardized Coefficient	R²
Being Knowledgeable	1.225	0.028	43.748	0	0.775	0.6
Being Healthy	0.114	0.014	7.92	0	0.114	0.013
Decent Living	1.207	0.115	10.467	0	0.77	0.593

Calculating individual HDI

Capabilities	Be healthy	Access to knowledge	Decent living	Work capability		
Capability score	Health score	Knowledge score	Living score	Work capability score		
Normalized score	S _{Health}	S _{Knowledge}	SLiving	S _{Work}		
Individual HDI (iHDI)) $iHDI_1 = (S_{Health} \cdot S_{Knowledge} \cdot S_{Living})^{1/3} vs. iHDI_2 = (S_{Health} \cdot S_{Knowledge} \cdot S_{Living} \cdot S_{Work})^{1/4}$					

normalized score = $\frac{actual \ score - minimum \ score}{maximum \ score - minimum \ score}$

$$HDI = (I_{Health} \cdot I_{Education} \cdot I_{Income}) \frac{1}{3}$$

Normalized factor scores and iHDIs

	Mean	Median	Standard Deviation	Min	Мах
S _{Being Knowledgeable}	0.2118	0.2082	0.0614	0	1
S _{Being Healthy}	0.7937	0.8533	0.1172	0	1
S _{Decent Living}	0.2091	0.208	0.0552	0	1
S _{Work Capability}	0.2488	0.2485	0.0414	0	1
iHDI ₁	0.3243	0.3255	0.0657	0	0.8952
iHDI ₂	0.3032	0.3036	0.0578	0	0.9203
Difference (iHDI ₁ – iHDI ₂)	0.0211	0.0225	0.0100	-0.0267	0.0548
Difference (iHDI ₁ – iHDI ₂) in %	6.1702	6.794	2.7611	-59.8405	14.4930

Figure 1: Histogram of iHDI indices

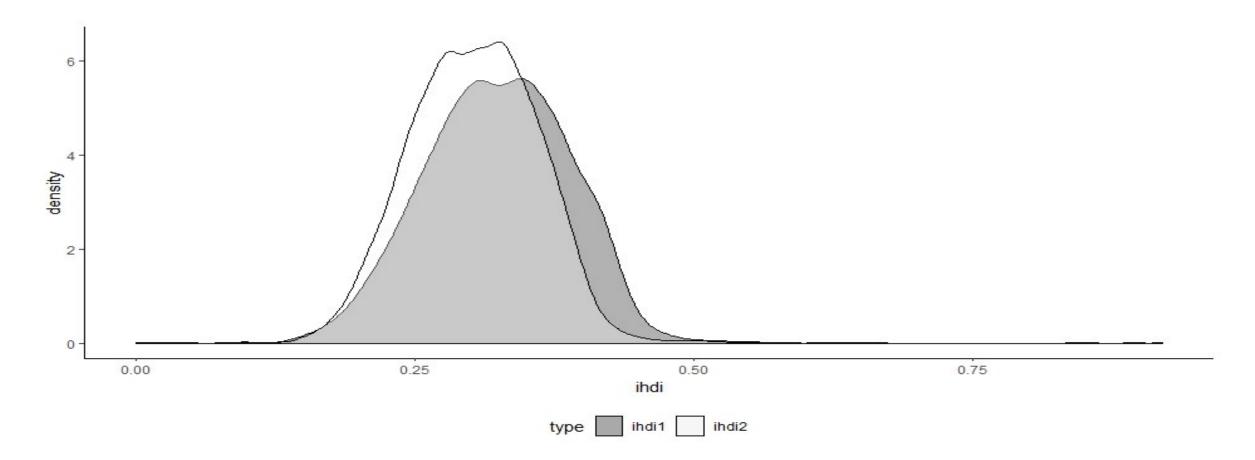
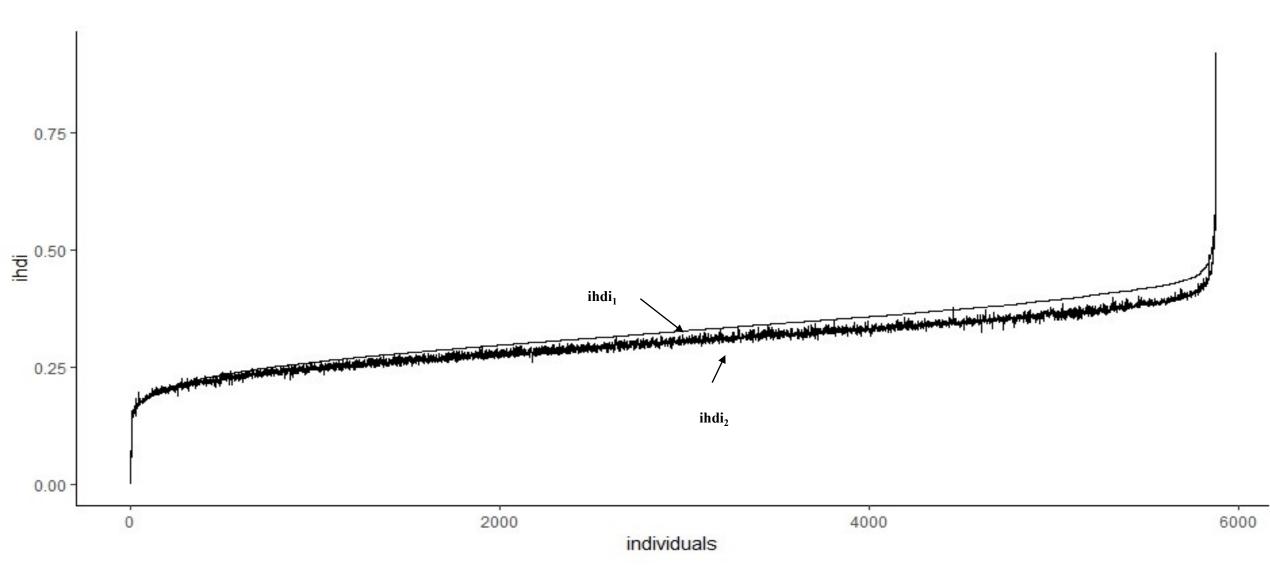
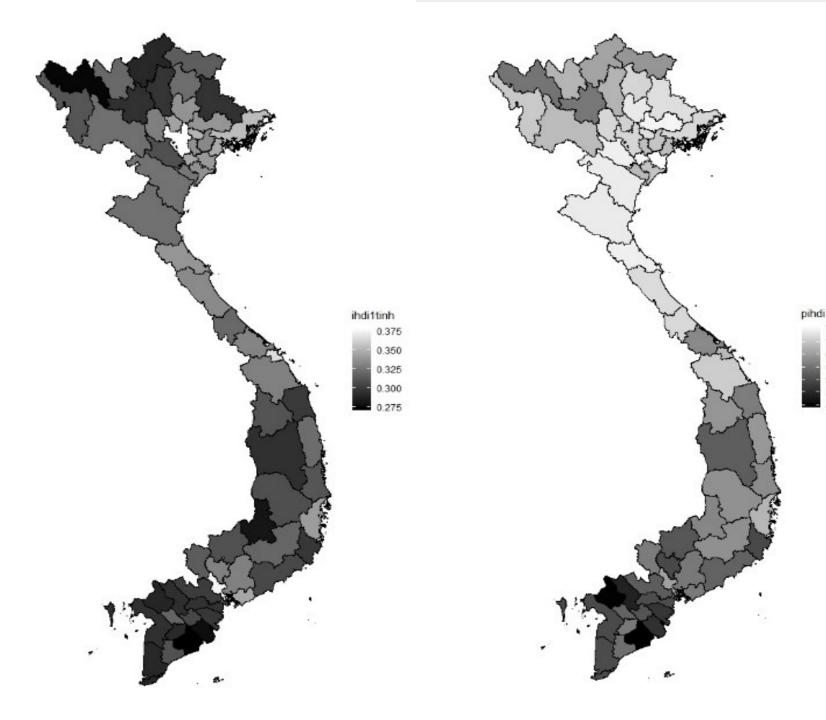


Figure 2: Difference between iHDI₁ and iHDI₂



- Work capability trade-offs for pay
- Work as an end trade-offs for work as a means
- Employees achieve other dimensions of their well-being by sacrificing their work capability
- →The loss of work capability should be counted as a deficit of individual freedom in working, and hence, a deficit of human development.
- →The measurement of human development should take into account both the surplus gained by working and the deficit sacrificed at working, not just the former.
 →It should count the totality of freedom in working and living

Figure 3: Individual HDI grouped by provinces



7.5

6.5

6.0

5.5 5.0 4.5

Suggested solutions for improving work capability

At macro level: ↑Job opportunity by Job Guarantee program

At micro level:
 Work autonomy by liberating leadership and job crafting

- Liberating leadership gives employees complete freedom and responsibility to act on their own initiative
- Job crafting is employees' efforts to "redesign their own jobs in ways that can foster job satisfaction, as well as engagement, resilience, and thriving at work"

5. Conclusion

- Roles of work: a means + an end of human development
- Work capability (job opportunity and work autonomy) is an essential freedom
- Work capability is important for shaping human development
- Integrating work capability into measuring human development
- The more attention of academia and policymakers in creating legal frameworks and working environments that improve work capability

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THANKS FOR YOUR ATTENTION

The relation of Work capability and the three other capabilities

