

World Bank Centre for Data Development (C4D2)

Partenariat pour le renforcement des capacités en matière d'enquêtes auprès des ménages
pour l'analyse du bien-être

Syllabus sur la Mesure de la Consommation

Formateur _____

Email _____

Heures de travail (numéro de la salle) _____

Objectifs de la formation

Dans le cadre de la formation des étudiants qui feront carrière au sein des Bureaux et Instituts statistiques, ce cours vise à améliorer la **qualité** et la **comparabilité** (dans le temps et entre les pays) des données d'enquêtes auprès des ménages pour la mesure du niveau de vie.

Pour ce faire, la formation s'articule autour de deux axes principaux : dans un premier temps, il s'agit de présenter le **cadre conceptuel** qui sous-tend la mesure du niveau de vie ; dans un second temps, il est question de proposer des **orientations pratiques** pour la conception d'enquêtes et la collecte de données, dans le contexte spécifique des modules de consommation et de dépenses des ménages.

Un accent particulier est mis sur la **collecte de données, plutôt que sur leur analyse**. À la fin de la formation, les participants auront appris comment aborder au mieux la conception des modules de consommation dans les enquêtes sur le budget des ménages. Le calcul des indicateurs de pauvreté et d'inégalité n'est abordé que brièvement dans ce programme, afin d'informer les producteurs de données sur l'utilisation des données de consommation des ménages.

Plan de la formation

- 1) **Mesure du niveau de vie : un cadre conceptuel**
De la théorie à la pratique : Revenu vs. Dépense/Consommation vs. Richesse
- 2) **L'Agrégat de la consommation**
Quatre composantes : (i) alimentation, (ii) produits non-alimentaires non-durables, (iii) logement et (iv) biens durables. Ajustements : pour la taille et les besoins des ménages, pour l'inflation en cours d'année.
- 3) **Comprendre les enquêtes auprès des ménages**
Types d'enquêtes ; caractéristiques des enquêtes auprès des ménages en vue de mesurer la consommation, par opposition à d'autres outils statistiques.
- 4) **Principes de conception du questionnaire**
Aperçu du processus d'enquête ; principes généraux de la conception du questionnaire, tels qu'ils s'appliquent à la mesure des dépenses de consommation.
- 5) **Mesure de la consommation alimentaire : les principes fondamentaux**
Concepts (par exemple, Acquisition vs. Consommation). Conception du questionnaire (Rappel vs. Journal).
- 6) **Mesure de la consommation alimentaire : conception du questionnaire**
Conception du questionnaire (liste des produits alimentaires, participation aux repas, saisonnalité).
- 7) **Repas en dehors du ménage et utilisation d'unités non-standard pour la mesure de la consommation alimentaire**
Conception du questionnaire (unités de mesure non-standard, alimentation hors-ménage).
- 8) **Mesure de la consommation des produits non-alimentaires non-durables**
Exigences en matière de données et conception du questionnaire.
- 9) **Biens durables**
Principes fondamentaux de l'estimation du flux de consommation de biens durables ; conception du questionnaire.
- 10) **Logement**
Principes fondamentaux de l'estimation des loyers imputés ; conception du questionnaire.
- 11) **Validation des données et diagnostics**
Principes clés de l'apurement des données statistiques.
- 12) **Détection et traitement des valeurs extrêmes**
Principes clés de la détection et du traitement des valeurs extrêmes.
- 13) **Mesure de l'inégalité**
Courbe de Lorenz et Indice de Gini ; autres mesures d'inégalité sélectionnées.
- 14) **Mesure de la pauvreté**
Seuils et mesures de pauvreté.
- 15) **Description des données**
Préparation du "rapport de tabulation".

Cours et Bibliographie

Cours 1

Mesure du niveau de vie: un cadre conceptuel

Bibliographie obligatoire :

- Deaton, A. and Zaidi, S. (2002). *Guidelines for Constructing Consumption Aggregates for Welfare Analysis*. LSMS Working Paper No. 135. Washington, DC : The World Bank. (Sections 2.1, 2.2)

Bibliographie suggérée :

- Atkinson, A. B. (2015). *Inequality: What Can Be Done?* Harvard University Press. (Ch. 1).
- Deaton, A., and Muellbauer, J. (1980). *Economics and consumer behavior*. Cambridge University Press.
- Mancini, G. and Vecchi, G. (2019), On the Construction of a Welfare Indicator for Inequality and Poverty Analysis, mimeo.
- Meyer, B., and Sullivan, J. (2003) “Measuring the Well-Being of the Poor Using Income and Consumption”, *The Journal of Human Resources*, 38.
- Meyer, B. D., and Sullivan, J. (2009). “Five decades of consumption and income poverty”. National Bureau of Economic Research.
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- Ravallion, M. (2016). *The Economics of Poverty History, Measurement, and Policy*. Oxford : Oxford University Press. (Ch. 3).
- Sen, A. (1987). *The Standard of Living*. Cambridge : Cambridge University Press. (Ch. 1)
- Sen, A. (1987). *Commodities and Capabilities*. New Delhi : Oxford University Press.
- Stiglitz, J. E., Sen, A., and Fitoussi, J. P. (2009). Measurement of economic performance and social progress.
- World Bank Group. (2015). *A Measured Approach to Ending Poverty and Boosting Shared Prosperity: Concepts, Data, and the Twin Goals*. Policy Research Report. Washington, DC : World Bank. (Ch. 1)
- World Bank. (2017). *Monitoring Global Poverty: Report of the Commission on Global Poverty*. Washington, DC : World Bank. (ch. 1)

Cours 2

L'Agrégat de la consommation

Bibliographie obligatoire :

- Deaton, A. and S. Zaidi (2002), Guidelines for constructing consumption Aggregates for welfare analysis, LSMS Working Paper no. 135, World Bank, Washington DC. (*Sections 3-5*)

Bibliographie suggérée

- Chen, S., and Ravallion, M. (1996). Data in transition : Assessing rural living standards in southern China. *China economic review*, 7(1), 23-56.
- Diewert (2004), Durable and user costs, in ILO (2005), *Consumer Price Index Handbook*. (*Ch. 23*)
- Gaddis, I. (2016). Prices for poverty analysis in Africa. The World Bank.
- Gibson, J. (2007). A guide to using prices in poverty analysis. World Bank, Washington, DC.
- Haughton, J. and Khandker, S. R. (2009). Handbook on poverty and inequality. Washington, DC : World Bank. (*Ch. 5*)

Cours 3

Comprendre les enquêtes auprès des ménages

Bibliographie obligatoire :

- Grosh, M., and Glewwe, P. (1998). Data Watch : The World Bank's Living Standards Measurement Study Household Surveys. *The Journal of Economic Perspectives*, 12(1), 187-196.

Bibliographie suggérée

- A'Hearn, B., Amendola, N., and Vecchi, G. (2016). On historical household budgets. *Rivista di Storia Economica*, 32(2), 137-176.
- Alkire, S. (2013). Towards frequent and accurate poverty data.
- Alkire, S., and Samman, E. (2014). Mobilising the household data required to progress toward the SDGs.
- Deaton, A. (1997). The analysis of household surveys: a microeconomic approach to development policy. *The World Bank. (Ch. 1, 1.3, p 32-40)*
- Lohr, S. L. (2009). *Sampling: design and analysis*. Nelson Education. (*Ch. 2 : Simple Probability Samples*)
- Pape, Utz Johann and Mistiaen, Johan A.. (2018). Household expenditure and poverty measures in 60 minutes : a new approach with results from Mogadishu
- Stigler, G. J. (1954). The early history of empirical studies of consumer behavior. *Journal of Political Economy*, 62(2), 95-113.

Cours 4

Principes de conception du questionnaire

Bibliographie obligatoire :

- Grosh, M. and Glewwe, P. (2000). Designing Household Questionnaires for Developing Countries, Lessons from 15 years of Living Standards Measurement Study, Volume One : World Bank. (*Ch. 2, 3*)
- Iarossi, G. (2006). The power of survey design - a user's guide for managing surveys, interpreting results, and influencing respondents. Washington, DC : World Bank. (*Ch. 2*)

Bibliographie suggérée

- Backiny-Yetna, P., Steele, D., & Dijma, I. (2017). The impact of household food consumption data collection methods on poverty and inequality measures in Niger. *Food Policy*, 72, 7-19.
- Barton, A. J. (1958). Asking the embarrassing question. *Public Opinion Quarterly*, 22, 67-68.
- Burgess, T. F. (2001). A general introduction to the design of questionnaires for survey research. Leeds : University of Leeds.
- Glewwe, P. (2005). Chapter III : Overview of questionnaire design for household surveys in developing countries. In United Nations Statistical Division, United Nations Department of Economic and Social Affairs (Eds.), *Household surveys in developing and transition countries*. New York, NY : United Nations.
- Grosh, M. and Glewwe, P. (2000). Designing Household Questionnaires for Developing Countries, Lessons from 15 years of Living Standards Measurement Study, Volume One : World Bank. (*Ch. 5*)
- Iarossi, G. (2006). The power of survey design - a user's guide for managing surveys, interpreting results, and influencing respondents. Washington, DC : World Bank. (*Ch. 3*)
- Jolliffe, D. (2001). Measuring absolute and relative poverty: the sensitivity of estimated household consumption to survey design. *Journal of Economic and Social Measurement*, 27(1, 2), 1-23.
- Krosnick, J. A., Et Presser, S. (2010). Question and questionnaire design. In J. D. Wright Et P. V. Marsden (Eds.), *Handbook of survey research* (second edition) (pp. 263-313). Bingley, UK : Emerald Group.
- Tourangeau, R., Groves, R. M., & Redline, C. D. (2010). Sensitive topics and reluctant respondents: Demonstrating a link between nonresponse bias and measurement error. *Public Opinion Quarterly*, 74,413-432.

Cours 5

Mesure de la consommation alimentaire: les principes fondamentaux

Bibliographie obligatoire :

- FAO and The World Bank. 2018. Food data collection in Household Consumption and Expenditure Surveys. Guidelines for low- and middle-income countries. Rome. (*Sections 2.1, 2.3, 3.1, 3.3*)
- Smith, L. C., Dupriez, O., and Troubat, N. (2014). Assessment of the reliability and relevance of the food data collected in national household consumption and expenditure surveys. International Household Survey Network. (*Sections 3.1, 3.2, 3.3.*)

Bibliographie suggérée

- Backiny-Yetna, P., Steele, D., and Dijma, I. (2017). The impact of household food consumption data collection methods on poverty and inequality measures in Niger. *Food Policy*, 72, 7-19.
- Beegle, K., De Weerd, J., Friedman, J., and Gibson, J. (2012). Methods of household consumption measurement through surveys: Experimental results from Tanzania. *Journal of Development Economics*, 98, 3–18.
- Brzozowski, M., Crossley, T. F., and Winter, J. K. (2017). A comparison of recall and diary food expenditure data. *Food Policy*, 72, 53-61.
- De Weerd, J., Beegle, K., Friedman, J., and Gibson, J. (2016). The challenge of measuring hunger through survey. *Economic Development and Cultural Change*, 64(4), 727-758.
- Fiedler, J. L. and Mwangi, D. M. (2016). Improving household consumption and expenditure surveys' food consumption metrics: developing a strategic approach to the unfinished agenda. IFPRI
- Friedman, J., Beegle, K., De Weerd, J. and Gibson, J. (2017). Decomposing response error in food consumption measurement: implications for survey design from a randomized survey experiment in Tanzania. *Food Policy*, 72 : 94–11.
- Gibson, J., Beegle, K., De Weerd, J., and Friedman, J. (2013). What does variation in survey design reveal about the nature of measurement errors in household consumption?. The World Bank.
- Gibson, R. S. (2005). Principles of nutritional assessment. Oxford university press, USA.

Cours 6

Mesure de la consommation alimentaire: conception du questionnaire

Bibliographie obligatoire :

- FAO and The World Bank (2018). Food data collection in Household Consumption and Expenditure Surveys. Guidelines for low- and middle-income countries. Rome. (*Sections 2.2, 2.4, 2.6, 3.2, 3.4, 3.6.*)
- Smith, L. C., Dupriez, O., and Troubat, N. (2014). Assessment of the reliability and relevance of the food data collected in national household consumption and expenditure surveys. International Household Survey Network. (*Sections 3.4, 3.5, 3.7.*)

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- Beegle, K., De Weerd, J., Friedman, J., and Gibson, J. (2012). Methods of household consumption measurement through surveys: Experimental results from Tanzania. *Journal of Development Economics*, 98, 3–18.
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- Finn, A. and Ranchhod, V. (2017). *Genuine Fakes : The Prevalence and Implications of Data Fabrication in a Large South African Survey*. Published by Oxford University Press on behalf of the World Bank.
- Gibson, J., and Rozelle, S. (2002). How elastic is calorie demand? Parametric, nonparametric, and semiparametric results for urban Papua New Guinea. *Journal of Development Studies*, 38(6), 23-46.
- Jolliffe, D. (2001). Measuring absolute and relative poverty: the sensitivity of estimated household consumption to survey design. *Journal of Economic and Social Measurement*, 27(1, 2), 1-23.
- Pradhan, M. (2009). Welfare analysis with a proxy consumption measure: evidence from a repeated experiment in Indonesia. *Fiscal Studies*, 30(3-4), 391-417.
- Troubat, N. and Grünberger, K. (2017). Impact of survey design in the estimation of habitual food consumption. The case of the 2007/08 Socio Economic Survey of Mongolia applied to urban households. *Food Policy*, 72(C): 132–145.

Cours 7

Alimentation hors-ménage et utilisation d'unités non-standard pour la mesure de la consommation alimentaire

Bibliographie obligatoire :

- FAO and The World Bank (2018). Food data collection in Household Consumption and Expenditure Surveys. Guidelines for low- and middle-income countries. Rome. (*Sections 2.5, 2.7, 3.5, 3.7.*)
- Smith, L. C., Dupriez, O., and Troubat, N. (2014). Assessment of the reliability and relevance of the food data collected in national household consumption and expenditure surveys. International Household Survey Network. (*Section 3.6.*)
- Oseni, G., Durazo, J., and McGee, K. (2017). The Use of Non-Standard Units for the Collection of Food Quantity. LSMS guidebook.

Bibliographie suggérée

- Borlizzi, A., Delgrossi, M. E., and Cafiero, C. (2017). National food security assessment through the analysis of food consumption data from Household Consumption and Expenditure Surveys: The case of Brazil's Pesquisa de Orçamento Familiares 2008/09. *Food policy*, 72, 20-26.
- Farfan, G., McGee, K. R., Perng, J., and Vakis, R. (2019). Poverty Measurement in the Era of Food Away from Home : Testing Alternative Approaches in Vietnam. Policy Research Working Paper Series 8692, The World Bank.
- Smith, L. C. (2015). The great Indian calorie debate : Explaining rising undernourishment during India's rapid economic growth. *Food Policy*, 50, 53-67.

Cours 8

Mesure de la consommation des produits non-alimentaires non-durables

Bibliographie obligatoire :

- Deaton, A. and Zaidi, S. (2002). *Guidelines for Constructing Consumption Aggregates for Welfare Analysis*. LSMS Working Paper No. 135. Washington, DC : The World Bank (p.23-38)

Bibliographie suggérée

- Deaton, A., and Grosh, M. (2000), "Consumption." In M. Grosh, and P. Glewwe eds., *Designing Household Survey Questionnaires for Developing Countries : Lessons from Ten Years of LSMS Experience*. Washington, DC : World Bank.
- Gertler, Paul J., Elaina Rose, and Paul Glewwe. (2000), "Health." In M. Grosh, and P. Glewwe eds., *Designing Household Survey Questionnaires for Developing Countries : Lessons from 15 Years of the Living Standards Measurement Study*. Washington, D.C. : World Bank
- Heijink, R., Xu, K., Saksena, P., and Evans, D. (2011), *Validity and comparability of out-of-pocket health expenditure from household surveys: a review of the literature and current survey instruments*. Geneva : World Health Organization, 28.
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- Oseni, G., Huebler, F., McGee, K., Amankwah, A., Legault, E., and Rakotonarivo, A. (2018), *Measuring Household Expenditure on Education : a new guidebook on measurement*. LSMS guidebook.
- Xu K, Ravndal F, Evans DB, and Carrin G. (2009), *Assessing the reliability of household expenditure data : results of the World Health Survey*. *Health Policy* ;91(3) :297-305.

Cours 9

Bien durables

Bibliographie obligatoire :

- Amendola, N. and G. Vecchi (2014), Durable goods and poverty measurement, World Bank Policy Research Working Paper no. 7105.
- Deaton, A. and Zaidi, S. (2002). *Guidelines for Constructing Consumption Aggregates for Welfare Analysis*. LSMS Working Paper No. 135. Washington, DC : The World Bank (p. 33-35)

Bibliographie suggérée

- Diewert, W. E. (2004), “Durables and User Costs” in ILO, Consumer Price Index Manual: Theory and Practice, chapter 23, ILO / IMF / OECD / UNECE / Eurostat / World Bank.
- Diewert, W. E. (2009), “Durables and Owner-Occupied Housing in a Consumer Price Index” in W. E. Diewert, J.S. Greenlees and C.R. Hulten (eds.), Price Index Concepts and Measurements, University of Chicago Press.

Cours 10 Logement

Bibliographie obligatoire :

- Malpezzi, S. (2002). "Housing". In Grosh, M. and Glewwe, P. (eds.). *Designing Household Questionnaires for Developing Countries, Lessons from 15 years of Living Standards Measurement Study, Volume One* : World Bank.

Bibliographie suggérée

- Balcázar, C. F., Ceriani, L., Olivieri, S. and Ranzani, M. (2017), Rent-Imputation for Welfare Measurement: A Review of Methodologies and Empirical Findings. *Review of Income and Wealth*, 63 : 881-898.
- Deaton, A. and Zaidi, S. (2002). *Guidelines for Constructing Consumption Aggregates for Welfare Analysis*. LSMS Working Paper No. 135. Washington, DC : The World Bank (p. 35-38)
- Heston, A. and A.O. Nakamura (2009), Questions about the equivalence of market rents and user costs for owner occupied housing, *Journal of Housing Economics*, 18, 273—279
- Ibarra, G. L., Mendiratta, V., and Vishwanath, T. (2017). Rental regulation and its consequences on measures of well-being in the Arab Republic of Egypt. The World Bank.
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- Sirmans, G. S., MacDonald, L., Macpherson, D. A., and Zietz, E. N. (2006). The value of housing characteristics: a meta analysis. *The Journal of Real Estate Finance and Economics*, 33(3), 215-240.

Cours 11

Validation des données et diagnostics

Bibliographie obligatoire

- De Waal, T., Pannekoek, J., and Scholtus, S. (2011). Handbook of Statistical Data Editing and Imputation. New York : John Wiley and Sons. (*Ch. 1*)

Bibliographie suggérée

- Barnett, V., and Lewis T. (1994). Outliers in Statistical Data. 3rd edition. J. Wiley and Sons 1994, XVII. 582 pp.
- Dang, H. A., Jolliffe, D., and Carletto, C. (2018). Data Gaps, Data Incomparability, and Data Imputation. Ecineq WP, 456.
- Fellegi, I. P., and Holt, D. (1976). A systematic approach to automatic edit and imputation. Journal of the American Statistical association, 71(353), 17-35.
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- Judge, G., and Schechter, L. (2009). Detecting problems in survey data using Benford's Law. Journal of Human Resources, 44(1), 1-24.
- Little, R. J., and Rubin, D. B. (2019). Statistical analysis with missing data (Vol. 793). Wiley. (*Ch. 1*)

Cours 12

Détection et traitement des valeurs extrêmes

Bibliographie obligatoire

- Barnett, V., and Lewis T. (1994). *Outliers in Statistical Data*. 3rd edition. J. Wiley and Sons. (Ch. 1 and 2.)

Bibliographie suggérée

- Alvarez, E., Garcia-Fernández, R. M., Blanco-Encomienda, F. J., and Munoz, J. F. (2014). The effect of outliers on the economic and social survey on income and living conditions. *World Acad. Sci., Eng. Technol., Int. J. Soc., Behav., Educ., Econ., Bus. Ind. Eng*, 8, 3276-3280.
- Cowell, F. A., and Flachaire, E. (2007). Income distribution and inequality measurement: The problem of extreme values. *Journal of Econometrics*, 141(2), 1044-1072.
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- Deaton, A., and Tarozzi, A. (2000). *Prices and poverty in India*. Princeton, July.
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Cours 13

Mesure de l'inégalité

Bibliographie obligatoire

- Cowell, F. (2011). *Measuring inequality*. Oxford University Press. (Ch. 1 and 2)

Bibliographie suggérée

- Atkinson, A. B. (1970). On the measurement of inequality. *Journal of economic theory*, 2(3), 244-263.
- Cowell, F.A., Jenkins, S.P., Litchfield, J. (1996) : The Changing Shape of the U.K. Income Distribution : Kernel Density Estimates. In : Hills, J. (Ed.) : *New Inequalities. The Changing Distribution of Income and Wealth in the United Kingdom*. Cambridge University Press, Cambridge
- Farris, F. A. (2010). The Gini index and measures of inequality. *The American Mathematical Monthly*, 117(10), 851-864.
- Haughton and Khandker (2009). *Handbook on Poverty and Inequality (Ch. 6)*.
- Pyatt, G. (1976). On the interpretation and disaggregation of Gini coefficients. *The Economic Journal*, 86(342), 243-255.
- Shorrocks, A. F. (1980). The class of additively decomposable inequality measures. *Econometrica: Journal of the Econometric Society*, 613-625.

Cours 14

Mesure de la Pauvreté

Bibliographie obligatoire

- Ravallion M. (2016). *The Economics of Poverty: History, Measurement, and Policy*. Oxford University Press. (Ch. 3.1-3.2, 4, 5.1-5.3).

Bibliographie suggérée

- Atkinson T., WBG (2017). *Monitoring Global Poverty, Report of the Commission on Global Poverty*
- Deaton, A. (1997). *The Analysis of Household Survey : A Microeconomic Approach to Development Policy*. Washington, D.C. : World Bank. (Sections 3.1 and 3.2)
- Deaton, A. and S. Zaidi (2002). *Guidelines for Constructing Consumption Aggregates for Welfare Analysis*. Living Standards Measurement Study Working Paper N. 135. The World Bank, Washington, DC.
- Foster, J., J. Greer, and E. Thorbecke (1984). *A Class of Decomposable Poverty Measures*. *Econometrica*, 52, 3 : 761–65.
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- Lipton, Michael and Ravallion, Martin (1995). "Poverty and policy," *Handbook of Development Economics*, in: Hollis Chenery and T.N. Srinivasan (ed.), *Handbook of Development Economics*, edition 1, volume 3, chapter 41, pages 2551-2657 Elsevier.
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- Ravallion, M. and B. Bidani (1994). *How Robust is a Poverty Profile?*, *World Bank Economic Review*, 8: 75-102.
- Sen, A. (1976). *Poverty: An Ordinal Approach to Measurement*, *Econometrica*, 44(2): 219-31.
- Zheng, B. (1997). *Aggregate Poverty Measures*, *Journal of Economic Surveys*, 11(2) : 123-62.

Cours 15

Description des données

Bibliographie obligatoire

- Glewwe, P., and Levin, M. (2005). Presenting simple descriptive statistics from household survey data. In UN, Household Sample Surveys in Developing and Transition Countries. Studies in Methods Series F No. 96
- Schwabish, J. A. (2014). An economist's guide to visualizing data. Journal of Economic Perspectives, 28(1), 209-34.

Bibliographie suggérée

- UNECE (2009). Making Data Meaningful, Part 1 : A Guide to writing stories about numbers. United Nations, Geneva.
- UNECE (2009). Making Data Meaningful, Part 2 : A Guide to presenting statistics. United Nations, Geneva.