From Choice to Demand

My goal for today: Back up, start again, and make sure everyone understands the transition from solving individual choice problems to the concept of the demand curve.

Please sit by your number and say hello to your partner.

| First name | Last name | Pair |
|------------|-----------------|------|
| Shamial | Ahmad | 4 |
| Finn | Arffmann | 6 |
| Jessica | Bernal | 1 |
| Simona | Clausnitzer | 4 |
| Johannah | CordonHill | 3 |
| Sara | Gladwin | 2 |
| Maria | Gomez Mercedes | 9 |
| Betsy | Helm | 7 |
| Liz | Kellam | 3 |
| Megan | Kilmer | 5 |
| Lisa | Merrick | 5 |
| Jenna | Myers | 1 |
| lan | Oxenham | 9 |
| Anisa | Salat | 6 |
| Agatha | Sloboda | 2 |
| Alison | Spain | 7 |
| Sophia | Weinstein | 8 |
| Kelsey | Weymouth-Little | 8 |

We started off with two isolated individuals:

David and John, who produce and consume wood and shortbread cakes

Ignoring each other, David chooses 2 cords of wood and 2 dozen shortbread cakes (2,2)

John chooses 3 cords and 8 cakes (3,.75)

John is much better at producing wood than David, but at current consumption levels, he has a much stronger preference for shortbread.

John





David

Our Complete Economy:



Additional gains to trade arise until they reach a deal in which David and John have the same MRS



But, they can do better by specializing

John and David can be better off if they recognize that each has different opportunity costs in production. David is relatively better at producing shortbread and John is relatively better at producing wood.



4

3.5

If John is producing 6 cords of wood and David 3.5 dozen shortbread cakes, now there is a lens of trading opportunities between the consumption bundles (hence utility levels) they achieved through their previous bargain which left



John could move to indifference curve U_{J3} by persuading David to trade more shortbread for wood.



An exchange equilibrium for this economy has David producing 3.5 dozen shortbread cakes, John producing 6 cords of wood, David consuming 4.5 cords of wood and 20 shortbread cakes (1.75 dozen), and John consuming 1.5 cords of wood and 16 shortbread cakes (1.25 dozen)



Suppose I'm facing not John, but a market:



What happens if the price rises? The horizontal intercept is I/Pw From P1 to P2



From P2 to P3



From this relationship, we can derive the demand curve – the relationship between price and quantity demanded.



The Demand Curve tells us the maximum people would pay for an additional unit of the good.

The difference between that maximum and the market price is surplus value – the ability to meet other needs while consuming the quantity one wants.

