

CROSS-PRICE ELASTICITY OF COMPLEMENTARY GOODS

UNDERSTANDING CROSS-PRICE ELASTICITY OF COMPLEMENTARY GOODS

CROSS-PRICE ELASTICITY OF COMPLEMENTARY GOODS IS A FUNDAMENTAL CONCEPT IN ECONOMICS THAT HELPS US UNDERSTAND HOW THE DEMAND FOR ONE PRODUCT IS AFFECTED BY CHANGES IN THE PRICE OF ANOTHER RELATED PRODUCT. FOR COMPLEMENTARY GOODS, THIS RELATIONSHIP IS INVERSE: AS THE PRICE OF ONE GOOD INCREASES, THE DEMAND FOR ITS COMPLEMENT TYPICALLY FALLS. THIS INTRICATE DANCE BETWEEN PRODUCT PRICING AND CONSUMER BEHAVIOR IS CRUCIAL FOR BUSINESSES TO NAVIGATE PRICING STRATEGIES, PRODUCT DEVELOPMENT, AND MARKET ANALYSIS. IN THIS COMPREHENSIVE EXPLORATION, WE'LL DELVE INTO THE DEFINITION, CALCULATION, IMPLICATIONS, AND REAL-WORLD APPLICATIONS OF CROSS-PRICE ELASTICITY, PARTICULARLY AS IT PERTAINS TO COMPLEMENTARY GOODS, ENSURING YOU GAIN A ROBUST UNDERSTANDING OF THIS VITAL ECONOMIC INDICATOR.

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WHAT IS CROSS-PRICE ELASTICITY?

AT ITS CORE, CROSS-PRICE ELASTICITY OF DEMAND MEASURES THE RESPONSIVENESS OF THE QUANTITY DEMANDED OF ONE GOOD WHEN THE PRICE OF ANOTHER GOOD CHANGES. IT'S A WAY FOR ECONOMISTS AND BUSINESSES TO QUANTIFY THE RELATIONSHIP BETWEEN TWO DIFFERENT PRODUCTS. INSTEAD OF LOOKING AT HOW DEMAND FOR A PRODUCT CHANGES WHEN ITS OWN PRICE CHANGES (WHICH IS STANDARD PRICE ELASTICITY), WE'RE EXAMINING HOW DEMAND FOR PRODUCT A SHIFTS WHEN THE PRICE OF PRODUCT B MOVES. THIS CONCEPT IS PARTICULARLY INSIGHTFUL WHEN WE CONSIDER GOODS THAT ARE CONSUMED TOGETHER, OR WHAT ECONOMISTS REFER TO AS COMPLEMENTARY GOODS.

THINK ABOUT IT LIKE THIS: IF THE PRICE OF YOUR FAVORITE COFFEE BEANS GOES UP SIGNIFICANTLY, HOW MIGHT THAT IMPACT THE DEMAND FOR THE FANCY FILTERS YOU USE WITH YOUR COFFEE MAKER? THIS IS PRECISELY THE KIND OF QUESTION CROSS-PRICE ELASTICITY HELPS US ANSWER. IT REVEALS THE DEGREE OF INTERDEPENDENCE BETWEEN THE MARKETS FOR DIFFERENT GOODS. THIS INTERDEPENDENCE CAN BE POSITIVE (SUBSTITUTES) OR NEGATIVE (COMPLEMENTS), AND UNDERSTANDING WHICH CATEGORY A PAIR OF GOODS FALLS INTO IS VITAL FOR EFFECTIVE ECONOMIC ANALYSIS AND BUSINESS STRATEGY.

THE FORMULA FOR CALCULATING CROSS-PRICE ELASTICITY

TO GET A TANGIBLE NUMBER THAT REPRESENTS THIS RELATIONSHIP, ECONOMISTS USE A SPECIFIC FORMULA. THE CROSS-PRICE

ELASTICITY OF DEMAND (XED) IS CALCULATED AS THE PERCENTAGE CHANGE IN THE QUANTITY DEMANDED OF GOOD A DIVIDED BY THE PERCENTAGE CHANGE IN THE PRICE OF GOOD B. MATHEMATICALLY, THIS IS EXPRESSED AS:

$$XED = (\% \text{ CHANGE IN QUANTITY DEMANDED OF GOOD A}) / (\% \text{ CHANGE IN PRICE OF GOOD B})$$

BREAKING THIS DOWN, THE “% CHANGE IN QUANTITY DEMANDED OF GOOD A” IS FOUND BY TAKING THE DIFFERENCE BETWEEN THE NEW QUANTITY DEMANDED AND THE ORIGINAL QUANTITY DEMANDED, DIVIDING BY THE ORIGINAL QUANTITY DEMANDED, AND THEN MULTIPLYING BY 100. SIMILARLY, THE “% CHANGE IN PRICE OF GOOD B” IS CALCULATED BY TAKING THE DIFFERENCE BETWEEN THE NEW PRICE OF GOOD B AND ITS ORIGINAL PRICE, DIVIDING BY THE ORIGINAL PRICE, AND MULTIPLYING BY 100. THIS FORMULA ALLOWS FOR A PRECISE, QUANTITATIVE ASSESSMENT OF HOW SENSITIVE THE DEMAND FOR ONE PRODUCT IS TO PRICE CHANGES IN ANOTHER.

WHILE THE CALCULATION ITSELF MIGHT SEEM STRAIGHTFORWARD, ACCURATELY GATHERING THE DATA FOR QUANTITY DEMANDED AND PRICE CHANGES ACROSS VARIOUS MARKET CONDITIONS IS WHERE THE REAL CHALLENGE LIES. BUSINESSES OFTEN USE MARKET RESEARCH, HISTORICAL SALES DATA, AND SOPHISTICATED ECONOMETRIC MODELS TO ESTIMATE THESE VALUES WITH A REASONABLE DEGREE OF ACCURACY. THE PRECISION OF THE INPUT DATA DIRECTLY IMPACTS THE RELIABILITY OF THE RESULTING CROSS-PRICE ELASTICITY COEFFICIENT.

INTERPRETING THE CROSS-PRICE ELASTICITY COEFFICIENT FOR COMPLEMENTS

THE SIGN AND MAGNITUDE OF THE CROSS-PRICE ELASTICITY COEFFICIENT PROVIDE CRUCIAL INSIGHTS INTO THE RELATIONSHIP BETWEEN TWO GOODS. FOR COMPLEMENTARY GOODS, THIS COEFFICIENT WILL ALWAYS BE NEGATIVE. WHY? BECAUSE WHEN THE PRICE OF ONE GOOD (SAY, PRINTERS) INCREASES, THE QUANTITY DEMANDED OF ITS COMPLEMENT (SAY, PRINTER INK) DECREASES. THIS INVERSE RELATIONSHIP IS THE HALLMARK OF COMPLEMENTS.

LET’S SAY THE PRICE OF PRINTER INK (GOOD B) GOES UP BY 10%, AND AS A RESULT, THE QUANTITY DEMANDED OF PRINTERS (GOOD A) FALLS BY 5%. USING OUR FORMULA, THE XED WOULD BE $-5\% / 10\% = -0.5$. THE MAGNITUDE OF THIS NEGATIVE NUMBER TELLS US HOW STRONGLY THE GOODS ARE LINKED. A COEFFICIENT CLOSER TO ZERO INDICATES A WEAK RELATIONSHIP, MEANING A PRICE CHANGE IN ONE HAS LITTLE IMPACT ON THE DEMAND FOR THE OTHER. CONVERSELY, A LARGER NEGATIVE NUMBER (E.G., -2.0) SIGNIFIES A STRONG COMPLEMENTARY RELATIONSHIP; A PRICE CHANGE IN ONE GOOD HAS A SIGNIFICANT EFFECT ON THE DEMAND FOR THE OTHER.

SO, A COEFFICIENT OF -0.5 SUGGESTS A RELATIVELY INELASTIC COMPLEMENTARY RELATIONSHIP – DEMAND FOR PRINTERS ISN’T EXTREMELY SENSITIVE TO INK PRICE CHANGES. HOWEVER, A COEFFICIENT OF -3.0 WOULD INDICATE A HIGHLY ELASTIC COMPLEMENTARY RELATIONSHIP, MEANING A SMALL INCREASE IN INK PRICES WOULD LEAD TO A SUBSTANTIAL DROP IN PRINTER SALES.

WHY UNDERSTANDING COMPLEMENTS MATTERS FOR BUSINESSES

FOR ANY BUSINESS, UNDERSTANDING THE CROSS-PRICE ELASTICITY OF COMPLEMENTARY GOODS IS NOT JUST AN ACADEMIC EXERCISE; IT’S A STRATEGIC IMPERATIVE. IMAGINE YOU MANUFACTURE GAMING CONSOLES. YOU KNOW THAT VIDEO GAME CARTRIDGES ARE STRONG COMPLEMENTS. IF THE PRICE OF POPULAR GAME TITLES SIGNIFICANTLY INCREASES, YOU CAN ANTICIPATE A DIP IN DEMAND FOR YOUR CONSOLES, EVEN IF THE CONSOLE PRICES REMAIN STABLE. THIS KNOWLEDGE ALLOWS YOU TO FORECAST SALES MORE ACCURATELY AND TO POTENTIALLY COLLABORATE WITH GAME DEVELOPERS ON PRICING STRATEGIES.

THIS UNDERSTANDING ALSO INFORMS PRICING DECISIONS. IF A BUSINESS SELLING CAMERAS DISCOVERS THAT THE DEMAND FOR CAMERAS IS HIGHLY ELASTIC WITH RESPECT TO THE PRICE OF MEMORY CARDS, THEY MIGHT CONSIDER OFFERING BUNDLED DEALS WHERE A MEMORY CARD IS INCLUDED AT A SLIGHTLY REDUCED PRICE. THIS CAN BOOST OVERALL SALES AND PROFITABILITY BY LEVERAGING THE COMPLEMENTARY NATURE OF THE PRODUCTS. FURTHERMORE, IT HELPS IN IDENTIFYING POTENTIAL THREATS AND OPPORTUNITIES. IF A COMPETITOR INTRODUCES A NEW ACCESSORY THAT BECOMES A MUST-HAVE COMPLEMENT TO YOUR PRODUCT, IT COULD SIGNIFICANTLY IMPACT YOUR SALES, BOTH POSITIVELY OR NEGATIVELY.

MOREOVER, INSIGHTS INTO CROSS-PRICE ELASTICITY CAN GUIDE PRODUCT DEVELOPMENT AND MARKET ENTRY STRATEGIES. IF YOU'RE DEVELOPING A NEW SMART HOME DEVICE, UNDERSTANDING WHAT OTHER DEVICES ARE ITS LIKELY COMPLEMENTS AND HOW THEIR PRICING MIGHT AFFECT YOUR PRODUCT'S ADOPTION IS CRUCIAL. ARE THERE ESTABLISHED COMPLEMENTARY PRODUCTS THAT ARE ALREADY EXPENSIVE? PERHAPS YOUR NEW DEVICE CAN OFFER A MORE AFFORDABLE ENTRY POINT, THEREBY ENCOURAGING DEMAND FOR BOTH.

REAL-WORLD EXAMPLES OF COMPLEMENTARY GOODS

THE WORLD IS REplete WITH EXAMPLES OF COMPLEMENTARY GOODS, AND RECOGNIZING THEM CAN ILLUMINATE ECONOMIC PRINCIPLES IN ACTION. ONE OF THE MOST CLASSIC PAIRINGS IS PRINTERS AND INK CARTRIDGES. AS WE'VE DISCUSSED, IF THE PRICE OF PRINTER INK SKYROCKETS, FEWER PEOPLE WILL BUY PRINTERS, AS THE ONGOING COST OF OPERATION BECOMES PROHIBITIVE. SIMILARLY, CONSIDER PEANUT BUTTER AND JELLY. IF THE PRICE OF PEANUT BUTTER DOUBLES, THE DEMAND FOR JELLY IS LIKELY TO DECREASE BECAUSE MANY CONSUMERS PURCHASE THESE ITEMS TO ENJOY TOGETHER.

OTHER COMMON EXAMPLES INCLUDE:

- COFFEE AND COFFEE MAKERS
- HOT DOGS AND HOT DOG BUNS
- CARS AND GASOLINE
- SMARTPHONES AND MOBILE APPS
- BLU-RAY PLAYERS AND BLU-RAY DISCS
- RAZORS AND RAZOR BLADES
- SHOES AND SHOELACES

EACH OF THESE PAIRS DEMONSTRATES THE INVERSE RELATIONSHIP CHARACTERISTIC OF COMPLEMENTS. THE PRICE OF ONE ITEM DIRECTLY INFLUENCES THE DESIRABILITY AND AFFORDABILITY OF PURCHASING AND USING ITS ASSOCIATED COUNTERPART. OBSERVING THESE EVERYDAY RELATIONSHIPS CAN PROVIDE A TANGIBLE UNDERSTANDING OF HOW CROSS-PRICE ELASTICITY OPERATES IN THE REAL WORLD.

FACTORS INFLUENCING CROSS-PRICE ELASTICITY OF COMPLEMENTS

WHILE THE NEGATIVE RELATIONSHIP BETWEEN COMPLEMENTARY GOODS IS CONSISTENT, THE DEGREE OF THAT RELATIONSHIP, OR THE ELASTICITY, CAN VARY SIGNIFICANTLY. SEVERAL FACTORS INFLUENCE HOW SENSITIVE THE DEMAND FOR ONE GOOD IS TO THE PRICE CHANGES OF ANOTHER. ONE OF THE MOST SIGNIFICANT FACTORS IS THE PROPORTION OF TOTAL EXPENDITURE THAT THE COMPLEMENTARY GOOD REPRESENTS. FOR INSTANCE, IF THE PRICE OF SHOELACES (A SMALL PART OF THE TOTAL COST OF SHOES) INCREASES, IT'S UNLIKELY TO DRASTICALLY AFFECT SHOE SALES. HOWEVER, IF THE PRICE OF GASOLINE (A SUBSTANTIAL ONGOING COST FOR CAR OWNERS) INCREASES SIGNIFICANTLY, IT CAN ABSOLUTELY IMPACT THE DEMAND FOR CARS, ESPECIALLY LARGER, LESS FUEL-EFFICIENT MODELS.

THE DEGREE OF COMPLEMENTARITY ITSELF ALSO PLAYS A VITAL ROLE. SOME GOODS ARE NEAR-PERFECT COMPLEMENTS; YOU ALMOST ALWAYS NEED ONE WITH THE OTHER (LIKE PEANUT BUTTER AND JELLY). OTHERS ARE LESS STRICTLY LINKED; YOU CAN OFTEN USE A PRINTER WITHOUT INK FOR A WHILE, OR BUY A CAR WITHOUT IMMEDIATELY NEEDING TO FILL IT WITH GAS. THE STRONGER THE NECESSITY OF USING THE GOODS TOGETHER, THE HIGHER THE ABSOLUTE VALUE OF THE CROSS-PRICE ELASTICITY COEFFICIENT WILL LIKELY BE.

FURTHERMORE, THE AVAILABILITY OF SUBSTITUTES FOR THE COMPLEMENTARY GOOD CAN ALSO INFLUENCE ELASTICITY. IF THERE ARE READILY AVAILABLE, AFFORDABLE ALTERNATIVES TO A SPECIFIC BRAND OF PRINTER INK, THEN A PRICE HIKE IN THAT PARTICULAR INK MIGHT LEAD CONSUMERS TO SWITCH TO A DIFFERENT BRAND OF INK OR EVEN A DIFFERENT PRINTER MODEL THAT USES MORE AFFORDABLE INK. THIS SUBSTITUTION EFFECT CAN WEAKEN THE DIRECT COMPLEMENTARY RELATIONSHIP.

STRATEGIC PRICING AND PRODUCT BUNDLING

BUSINESSES CAN STRATEGICALLY LEVERAGE THE CONCEPT OF CROSS-PRICE ELASTICITY OF COMPLEMENTARY GOODS TO ENHANCE THEIR PROFITABILITY AND MARKET SHARE. PRODUCT BUNDLING IS A PRIME EXAMPLE. BY PACKAGING COMPLEMENTARY ITEMS TOGETHER, BUSINESSES CAN OFFER A PERCEIVED VALUE TO THE CUSTOMER, ENCOURAGING THE PURCHASE OF BOTH ITEMS. THINK OF A VIDEO GAME CONSOLE SOLD WITH A POPULAR GAME AT A SLIGHTLY DISCOUNTED BUNDLED PRICE. THIS CAN ENTICE CONSUMERS WHO MIGHT HAVE BEEN ON THE FENCE ABOUT PURCHASING THE CONSOLE, KNOWING THAT A DESIRABLE GAME IS IMMEDIATELY AVAILABLE.

ANOTHER STRATEGY INVOLVES DYNAMIC PRICING. A COMPANY MIGHT CHOOSE TO PRICE A PRIMARY PRODUCT (LIKE A PRINTER) AT A RELATIVELY LOW PROFIT MARGIN OR EVEN AT A LOSS, WITH THE EXPECTATION THAT THE ONGOING PURCHASES OF ITS COMPLEMENTARY GOOD (PRINTER INK) WILL GENERATE SUBSTANTIAL LONG-TERM PROFITS. THIS "RAZOR AND BLADES" MODEL IS A CLASSIC ILLUSTRATION OF THIS STRATEGY, WHERE THE INITIAL PURCHASE IS JUST THE BEGINNING OF A PROFITABLE CUSTOMER RELATIONSHIP BUILT ON COMPLEMENTARY CONSUMABLES.

UNDERSTANDING CROSS-PRICE ELASTICITY ALSO HELPS BUSINESSES DECIDE WHETHER TO ACTIVELY PROMOTE OR DE-EMPHASIZE CERTAIN COMPLEMENTARY PRODUCTS. IF A PRICE INCREASE IN A KEY COMPLEMENTARY GOOD IS CAUSING A SIGNIFICANT DROP IN SALES OF YOUR MAIN PRODUCT, YOU MIGHT CONSIDER STRATEGIES TO MITIGATE THIS, SUCH AS OFFERING DISCOUNTS ON YOUR OWN PRODUCT OR EVEN PRODUCING A MORE AFFORDABLE VERSION OF THE COMPLEMENTARY ITEM.

THE DYNAMIC NATURE OF COMPLEMENTARY RELATIONSHIPS

IT'S IMPORTANT TO RECOGNIZE THAT THE RELATIONSHIPS BETWEEN GOODS ARE NOT STATIC; THEY CAN EVOLVE OVER TIME. WHAT IS CONSIDERED A COMPLEMENTARY GOOD TODAY MIGHT BECOME LESS SO IN THE FUTURE DUE TO TECHNOLOGICAL ADVANCEMENTS, CHANGING CONSUMER PREFERENCES, OR MARKET INNOVATIONS. FOR INSTANCE, WHILE PHYSICAL MEDIA LIKE CDS AND MP3 PLAYERS WERE ONCE STRONG COMPLEMENTS TO MUSIC, THE RISE OF STREAMING SERVICES HAS FUNDAMENTALLY ALTERED THIS RELATIONSHIP. NOW, THE PRIMARY "COMPLEMENT" TO ENJOYING MUSIC IS A RELIABLE INTERNET CONNECTION AND A SUBSCRIPTION SERVICE.

SIMILARLY, CONSUMER HABITS CAN SHIFT. AS PEOPLE BECOME MORE ENVIRONMENTALLY CONSCIOUS, THEY MIGHT SEEK OUT PRODUCTS THAT ARE DESIGNED TO BE USED WITH FEWER OR MORE SUSTAINABLE COMPLEMENTS. THIS MEANS BUSINESSES NEED TO CONTINUALLY MONITOR MARKET TRENDS AND REASSESS THE CROSS-PRICE ELASTICITY OF THEIR PRODUCTS. WHAT WAS ONCE A PREDICTABLE RELATIONSHIP MIGHT BECOME MORE COMPLEX OR EVEN DISSOLVE AS NEW TECHNOLOGIES AND BEHAVIORS EMERGE, REQUIRING ONGOING ADAPTATION IN PRICING AND MARKETING STRATEGIES.

FREQUENTLY ASKED QUESTIONS

Q: WHAT IS THE DIFFERENCE BETWEEN COMPLEMENTARY GOODS AND SUBSTITUTE GOODS IN TERMS OF CROSS-PRICE ELASTICITY?

A: COMPLEMENTARY GOODS HAVE A NEGATIVE CROSS-PRICE ELASTICITY OF DEMAND. THIS MEANS THAT AS THE PRICE OF ONE GOOD INCREASES, THE DEMAND FOR ITS COMPLEMENT DECREASES. SUBSTITUTE GOODS, ON THE OTHER HAND, HAVE A POSITIVE CROSS-PRICE ELASTICITY OF DEMAND. WHEN THE PRICE OF A SUBSTITUTE GOOD INCREASES, THE DEMAND FOR THE ORIGINAL

GOOD INCREASES AS CONSUMERS SWITCH.

Q: CAN THE CROSS-PRICE ELASTICITY OF COMPLEMENTARY GOODS CHANGE OVER TIME?

A: ABSOLUTELY. TECHNOLOGICAL ADVANCEMENTS, SHIFTS IN CONSUMER PREFERENCES, AND MARKET INNOVATIONS CAN SIGNIFICANTLY ALTER THE RELATIONSHIPS BETWEEN GOODS. FOR EXAMPLE, THE RISE OF STREAMING SERVICES HAS REDUCED THE COMPLEMENTARY RELATIONSHIP BETWEEN PHYSICAL MEDIA LIKE CDS AND MUSIC PLAYERS.

Q: HOW DO BUSINESSES USE THE CONCEPT OF CROSS-PRICE ELASTICITY OF COMPLEMENTARY GOODS IN THEIR PRICING STRATEGIES?

A: BUSINESSES USE THIS CONCEPT FOR STRATEGIES LIKE PRODUCT BUNDLING, OFFERING A PACKAGE OF COMPLEMENTARY GOODS AT A DISCOUNT. THEY ALSO EMPLOY A "RAZOR AND BLADES" MODEL, SELLING A PRIMARY PRODUCT AT A LOW MARGIN AND PROFITING FROM THE SALE OF ESSENTIAL COMPLEMENTARY CONSUMABLES, LIKE PRINTERS AND INK CARTRIDGES.

Q: WHAT DOES A CROSS-PRICE ELASTICITY COEFFICIENT OF -1.5 INDICATE FOR COMPLEMENTARY GOODS?

A: A COEFFICIENT OF -1.5 INDICATES AN ELASTIC COMPLEMENTARY RELATIONSHIP. IT MEANS THAT FOR EVERY 1% INCREASE IN THE PRICE OF ONE GOOD, THE QUANTITY DEMANDED OF ITS COMPLEMENT WILL DECREASE BY 1.5%. THIS SUGGESTS A RELATIVELY STRONG INTERDEPENDENCE BETWEEN THE TWO GOODS.

Q: ARE THERE ANY SPECIFIC INDUSTRIES WHERE UNDERSTANDING CROSS-PRICE ELASTICITY OF COMPLEMENTARY GOODS IS PARTICULARLY CRUCIAL?

A: YES, INDUSTRIES HEAVILY RELIANT ON CONSUMABLES OR CONNECTED ACCESSORIES FIND THIS CONCEPT VITAL. THIS INCLUDES CONSUMER ELECTRONICS (E.G., GAMING CONSOLES AND GAMES, PRINTERS AND INK), AUTOMOTIVE (CARS AND FUEL/PARTS), AND EVEN FOOD AND BEVERAGE SECTORS (E.G., COFFEE AND FILTERS, HOT DOGS AND BUNS).

Q: HOW DOES THE AVAILABILITY OF SUBSTITUTES FOR A COMPLEMENTARY GOOD AFFECT ITS CROSS-PRICE ELASTICITY?

A: IF THERE ARE MANY READILY AVAILABLE AND AFFORDABLE SUBSTITUTES FOR A COMPLEMENTARY GOOD, THE CROSS-PRICE ELASTICITY WILL TEND TO BE LESS ELASTIC (CLOSER TO ZERO). CONSUMERS CAN EASILY SWITCH TO ALTERNATIVES IF THE PRICE OF THE ORIGINAL COMPLEMENT RISES, WEAKENING THE DIRECT IMPACT ON THE PRIMARY PRODUCT'S DEMAND.

Q: IS IT POSSIBLE FOR A GOOD TO BE A COMPLEMENT TO ONE PRODUCT AND A SUBSTITUTE FOR ANOTHER?

A: YES, THIS IS POSSIBLE DEPENDING ON THE CONTEXT AND THE SPECIFIC GOODS BEING COMPARED. FOR INSTANCE, WHILE COFFEE IS A COMPLEMENT TO SUGAR FOR MANY, IT MIGHT BE A SUBSTITUTE FOR TEA FOR OTHERS. THE CLASSIFICATION DEPENDS ON THE SPECIFIC PAIRING AND HOW CONSUMERS PERCEIVE THEIR USAGE.

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