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## Planned obsolescence From Wikipedia, the free encyclopedia

For the book, see Planned Obsolescence (book).

In economics and industrial design, planned obsolescence (also called built-in obsolescence or premature obsolescence) is a policy of planning

or designing a product with an artificially limited useful life or a purposely frail design, so that it becomes obsolete after a certain pre-determined period of time upon which it decrementally functions or suddenly ceases to function, or might be perceived as unfashionable.[1] The rationale behind this strategy is to generate long-term sales volume by reducing the time between repeat purchases (referred to as "shortening the replacement cycle"). [2] It is the deliberate shortening of a lifespan of a product to force people to purchase functional replacements. [3] Planned obsolescence tends to work best when a producer has at least an oligopoly. [4] Before introducing a planned obsolescence, the producer has to know that the customer is at least somewhat likely to buy a replacement from them (see brand loyalty). In these cases of planned obsolescence,

there is an information asymmetry between the producer, who knows how long the product was designed to last, and the customer, who does not. When a market becomes more competitive, product lifespans tend to increase. [5][6] For example, when Japanese vehicles with longer lifespans entered the American market in the 1960s and 1970s, American carmakers were forced to respond by building more durable products.[7] **Contents** [hide]

In 1924, the American automobile market began reaching saturation point. To maintain unit sales, General Motors executive Alfred P. Sloan Jr.

used the term dynamic obsolescence, [10] but critics coined the name of his strategy planned obsolescence.

suggested annual model-year design changes to convince car owners to buy new replacements each year, with refreshed appearances headed by Harley

Earl and the Art and Color Section. Although his concept was borrowed from the bicycle industry, its origin was often misattributed to Sloan. [9] Sloan often

This strategy had far-reaching effects on the automobile industry, product design field and eventually the whole American economy. The smaller players

could not maintain the pace and expense of yearly re-styling. Henry Ford did not like the constant stream of model-year changes because he clung to an

engineer's notions of simplicity, economies of scale, and design integrity. GM surpassed Ford's sales in 1931 and became the dominant company in the

industry thereafter. The frequent design changes also made it necessary to use a body-on-frame structure rather than the lighter, but less easy to modify,

The origin of the phrase planned obsolescence goes back at least as far as 1932 with Bernard London's pamphlet Ending the Depression Through Planned

perpetuate purchasing. However, the phrase was first popularized in 1954 by Brooks Stevens, an American industrial designer. Stevens was due to give a

"planned obsolescence" became Stevens' catchphrase. By his definition, planned obsolescence was "Instilling in the buyer the desire to own something a

Design ... is an attempt to make a contribution through change. When no contribution is made or can be made, the only process available for giving the

Obsolescence.[11] The essence of London's plan would have the government impose a legal obsolescence on personal-use items, to stimulate and

talk at an advertising conference in Minneapolis in 1954. Without giving it much thought, he used the term as the title of his talk. From that point on,

2.1 Contrived durability 2.2 Prevention of repairs 2.3 Batteries 2.4 Perceived obsolescence 2.5 Systemic obsolescence 2.6 Programmed obsolescence 2.7 Software lock-out 2.8 Legal obsolescence 3 Laws and regulations 4 Critics and supporters 5 In academia 6 See also 7 References

unibody design used by most European automakers.

little newer, a little better, a little sooner than is necessary."[12]

quoted industrial designer George Nelson, who wrote:

a sign of planned obsolescence if the limit is made artificially short.

illusion of change is "styling"!

1 History

2 Variants

8 Further reading

History [edit]

Consumer capitalism · Consumerism · Conviviality · Criticism of advertising · Culture jamming · Degrowth · Do it yourself · Downshifting · Durable good ·

**Notable works Organizations and groups** People **Related social movements** See also

for products designed to break easily or to quickly go out of style. In fact, the concept was so widely recognized that in 1959 Volkswagen mocked it in an advertising campaign. While acknowledging the widespread use of planned obsolescence among automobile manufacturers, Volkswagen pitched itself as an alternative. "We do not believe in planned obsolescence", the ads suggested. "We don't change a car for the sake of change." [13] In the famous Volkswagen advertising campaign by Doyle Dane Bernbach, one advert showed an almost blank page with the strapline "No point in showing the 1962 Volkswagen, it still looks the same". In 1960, cultural critic Vance Packard published *The Waste Makers*, promoted as an exposé of "the systematic attempt of business to make us wasteful, debtridden, permanently discontented individuals". Packard divided planned obsolescence into two sub categories: obsolescence of desirability and obsolescence of "Obsolescence of desirability", also known as "psychological obsolescence", referred to marketers' attempts to wear out a product in the owner's mind. Packard

**Contrived durability** [edit] Contrived durability is a strategy of shortening the product lifetime before it is released onto the market, by designing it to deteriorate quickly. [4] The design of all personal-use products includes an expected average lifetime permeating all stages of development. Thus, it must be decided early in the design of a complex product how long it should last so that each component can be made to those specifications. Since all matter is subject to entropy, it is impossible for anything to last forever: all products will ultimately break down, no matter what steps are taken. Limited lifespan is only

often argued as its own field of anti-customer practices. A possible method of limiting a product's durability is to use inferior materials in critical areas, or suboptimal component layouts which cause excessive wear. Using soft metal in screws and cheap

has been detected.[16][17]

Planned obsolescence in a Bosch

elements shown in the photo (motor,

switch, speed control microprocessor, power cord, etc.) are sold by the Bosch

service as "single spare part" for a price

Perceived obsolescence [edit]

similar to the new complete device

value of the appliance, forcing it to be scrapped. [18]

Variants [edit]

function.

the purchase of a replacement. The short life expectancy of smartphones and other handheld electronics is a result of constant usage, fragile batteries, and the ability to easily damage them. [14] Prevention of repairs [edit]

the user to access the interior without destroying the watch entirely. [citation needed] Manufacturers may make replacement parts either unavailable or so expensive that they make the product uneconomic to repair. For example, Canon and some HP inkjet printers incorporate a replaceable print head which eventually fails. However, the high cost of a replacement forces the owner to scrap the entire device.[15]

Bosch, despite the up to 10-year availability of spare parts declared on websites, [19][20] assembles in the popular

MaxoMixx mixers an easily breaking plastic latch, refusing to sell the replacement latch to the user and proposing

to replace the entire drive consisting of many elements as a single spare part, which is almost equivalent to buying a new device.<sup>[21]</sup> According to Kyle Wiens, co-founder of online repair community iFixit, a possible goal for such a design is to make the cost of repairs comparable to the replacement cost, or to prevent any form of servicing of the product at all. In

Front loading washing machines often have the drum bearing – a critical and wear-prone mechanical component – permanently molded into the wash tub,

or even have a sealed outer tub, making it impossible to renew the bearings without replacing the entire tub. The cost of this repair may exceed the residual

immersion blender: a plastic latch independent and home repair market. [22] (indicated by the head of a match) designed to break after a certain Batteries [edit] number of deformations, making it difficult to use the blender. All the

and eventually leads to system outages in portable electronics.<sup>[23][24]</sup>

the product lifespan to its shortest-lived component. [23][25]

to replace the battery. In the latter case, this could void the warranty on the device. [citation needed]

ensuring constant demand for the product, even though it remains fundamentally the same.

could be opened by the user in order to replace the battery. [29]

As such, it forces users who wish to keep their device functional longer to limit their use of energy-demanding device functionality and to forego full recharging. [citation needed] The practice in phone design started with Apple's iPhones and has now spread out to most other mobile phones. [28] Earlier mobile phones (including water-resistant ones) had back covers that

While such a design can help make the device thinner, it makes it difficult to replace the battery without sending the entire device away for repairs or purchasing an entirely new device.[26] On a

risking serious, even irreparable damage to the phone's main board as a result of having to pry the battery free from strong adhesive in proximity to delicate components. Some devices are even

built so that the battery terminals are covered by the main board, requiring it to be riskily removed entirely before disconnecting the terminals. [27] The manufacturer or a repair service might be able

device with a sealed back cover, a manual (forced) battery replacement might induce permanent damage, including loss of water-resistance due to damages on the water-protecting seal, as well as

Some portable products highly relied upon in the post-PC era, such as mobile phones, laptops, as well as electric toothbrushes, are designed in a way that

denies end-users the ability to replace their batteries after those have worn down, therefore leaving an aging battery trapped inside the device, which limits

Many products are primarily desirable for aesthetic rather than functional reasons. An example of such a product is clothing. Such products experience a cycle of desirability referred to as a "fashion cycle". By continually introducing new aesthetics, and retargeting or discontinuing older designs, a manufacturer can "ride the fashion cycle", allowing for constant sales despite the original products remaining fully functional. Sneakers are a popular fashion industry where this is prevalent—Nike's Air Max line of running shoes is a prime example where a single model of shoe is often produced for years, but the color and material combination ("colorway") is changed every few months, or different colorways are offered in different markets. [citation needed] This has the upshot of

status symbols. The most notable example among technology products are Apple products. New colorways introduced with iterative "S" generation iPhones (e.g. the iPhone 6S's "Rose Gold") entice people into upgrading and distinguishes an otherwise identical-looking iPhone from the previous year's model.

Motor vehicle platforms typically undergo a midlife "facelift"—a cosmetic rather than an engineering change for the purpose of cost effectively increasing customer appeal by making previously

To a more limited extent this is also true of some personal-use electronic products, where manufacturers will release slightly updated products at regular intervals and emphasize their value as

Planned systemic obsolescence is caused either by the withdrawal of investment, or a product becoming obsolete through continuous development of the system in which it is used in such a way as to make continued use of the original product difficult. Common examples of planned systemic obsolescence include changing the design of screws or fasteners so that they cannot easily be operated on with existing tools, thereby frustrating maintenance. This may be intentionally designed obsolescence, a withdrawal of investment or standards being updated or superseded. For example, serial ports, parallel ports, and PS/2 ports have largely been supplanted or usurped by USB on newer PC motherboards since 2000s. [citation needed]

In some cases, notification may be combined with deliberate artificial disabling of a functional product to prevent it from working, thus requiring the buyer to purchase a replacement. For example, inkjet printer manufacturers employ smart chips in their ink cartridges to prevent them from being used after a certain threshold (number of pages, time, etc.), even though the cartridge may still contain usable ink or could be refilled (with ink toners, up to 50 percent of the toner cartridge is often still full). [30] This constitutes "programmed obsolescence", in that there is no random

In the Jackie Blennis v. HP class action suit, it was claimed that Hewlett Packard designed certain inkjet printers and cartridges to shut down on an undisclosed expiration date, and at this point

customers were prevented from using the ink that remained in the expired cartridge. HP denied these claims, but agreed to discontinue the use of certain messages, and to make certain changes

might be unsolicited and undesired by users.

component contributing to the decline in function.

would technically, albeit not economically, be able to keep working as intended.

abandoned by the manufacturer with regard to manufacturer support is sometimes called abandonware.

Systemic obsolescence [edit]

In 2021, Canon disabled the scanning function of its Canon Pixma MG6320 all-in-one printers whenever an ink cartridge was out of ink. A class action lawsuit was filed. [34] Software lock-out [edit] Another example of programmed obsolescence is making older versions of software (e.g. Adobe Flash Player or YouTube's Android application<sup>[35]</sup>) unserviceable deliberately, even though they

Where older versions of software contain unpatched security vulnerabilities, such as banking and payment apps, deliberate lock out may be a risk-based response to prevent the proliferation of

malware in those older versions. If the original vendor of the software is no longer in business, then disabling may occur by another software author as in the case of a web browser disabling a

privacy, though in other cases, this does not exclude the possibility of "security reasons" being used for fearmongering. This could be a problem for the user, because some devices, despite being equipped with appropriate hardware, might not be able to support the newest update without modifications such as custom firmware.

Legal obsolescence [edit] Legal obsolescence refers to the undermining of product usability through legislation, as well as facilitate purchasing a new product by offering benefits. For example, governments wanting to increase electric vehicle ownership could increase the replacement rate of cars by subsidising them.

Several cities such as London, Berlin, Paris, Antwerp and Brussels have introduced low-emission zones (LEZ) banning older diesel cars. People using such cars in these zones must replace

In 2015 the French National Assembly established a fine of up to €300,000 and jail terms of up to two years for manufacturers planning the failure of their products.<sup>[40]</sup> The rule is relevant not only

because of the sanctions that it establishes but also because it is the first time that a legislature recognized the existence of planned obsolescence. [41] These techniques may include "a deliberate

The European Union is also addressing the practice. The European Economic and Social Committee (EESC), an advisory body of the EU, [42] announced in 2013 that it was studying "a total ban on planned obsolescence". It said replacing products that are designed to stop working within two or three years of their purchase was a waste of energy and resources and generated pollution. [43]

Critics and supporters [edit]

technique.[30]

society—forces that lead to ever-improving goods and services."[48]

them.[39]

charge, any defective product within two years from its original purchase date. This effectively creates a mandatory two-year warranty. [47]

In academia [edit] Russell Jacoby, writing in the 1970s, observes that intellectual production has succumbed to the same pattern of planned obsolescence used by manufacturing enterprises to generate everrenewed demand for their products. The application of planned obsolescence to thought itself has the same merit as its application to consumer goods; the new is not only shoddier than the old, it fuels an obsolete social

personal-use electronics.<sup>[49]</sup> Some people, such as Ronny Balcaen, have proposed to create a new label to counter the diminishing quality of products due to the planned obsolescence

 Crippleware Defective by Design Design life – Time the creator plans a product to last Durapolist—producer that manipulates the durability of its product

Environmental effects of transport

degraded batteries

 Phoebus cartel—worked to standardize the life expectancy of light bulbs at 1,000 hours, down from 2,500 hours Prognostics—engineering discipline focused on predicting the life times Repairability

Durability – Ability of a product to continue to function

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старой модели начинают садиться аккумулятор, а

сейчас ещё и замедляется процессор. Всё как будто

выпуска новых моделей как раз предусматривает, что

новая модель выходит на рынок именно тогда, когда на

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Compulsive buying disorder ·

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Theories and ideas

Q

[hide]

The 1923 Chevrolet is cited as one

of the earliest examples of annual facelifts in the car industry, because it had a restyled body covering what essentially was nine-year-old technology.[8]

The phrase was quickly taken up by others, but Stevens' definition was challenged. By the late 1950s, planned obsolescence had become a commonly used term Ending the Depression Through Planned Obsolescence, by Bernard London, 1932

The strategy of contrived durability is generally not prohibited by law, and manufacturers are free to set the durability level of their products.<sup>[4]</sup> While often considered planned obsolescence, it is plastic instead of metal in stress-bearing components will increase the speed at which a product will become inoperable through normal usage and make it prone to breakage from even minor forms of abnormal usage. For example, small, brittle plastic gears in toys are extremely prone to damage if the toy is played with roughly, which can easily destroy key functions of the toy and force The ultimate examples of such design are single-use versions of traditionally durable goods, such as disposable cameras, where the customer must purchase entire new products after using them

just once. Such products are often designed to be impossible to service; for example, a cheap throwaway digital watch may have a case which is sealed in the factory, with no designed ability for Other products may also contain design features meant to frustrate repairs, such as Apple's "tamper-resistant" pentalobe screws that cannot easily be removed with common personal-use tools, overuse of glue, as well as denying operation if any third-party component such as a replacement home button

> 2012, Toshiba was criticized for issuing cease-and-desist letters to the owner of a website that hosted its copyrighted repair manuals, to the detriment of the Throughout normal use, batteries lose their ability to store energy, output power, and maintain a stable terminal voltage, which impairs computing speeds

themselves.

Pentalobe screws used in an iPhone

6S. Critics have argued that Apple's use

of pentalobe screws in their newer devices is an attempt to prevent the

owner from repairing the device

Obsolescence of desirability or stylistic obsolescence occurs when designers change the styling of products so trendsetting customers will purchase the latest styles.

Some smartphone manufacturers release a marginally updated model every 5 or 6 months compared to the typical yearly cycle, leading to the perception that a one-year-old handset can be up to two generations old. A notable example is OnePlus, known for releasing T-series devices with upgraded specifications roughly 6 months after a major release device. Sony Mobile utilised a similar tactic with its Xperia Z-series smartphones. [citation needed]

manufactured versions of the same fundamental product less desirable. The most simplistic way to achieve this outcome is to offer new paint colors.

Programmed obsolescence [edit]

to the disclosures on its website and packaging, as well as compensating affected customers with a total credit of up to \$5,000,000 for future purchases from HP.[31][32] Samsung produces laser printers that are designed to stop working with a message about imaging drum replacing. There are some workarounds for users, for instance, that will more than double the life of the printer that has stopped with a message to replace the imaging drum. [33]

plugin. Otherwise, the vendor who owns a software ecosystem may disable an app that does not comply with a key policy or regulation, such as the processing of personal data to protect user Additionally, updates to newer versions might have introduced undesirable side effects, such as removed features<sup>[35]</sup> or compulsory changes, or backwards compatibility shortcomings which

Software companies sometimes deliberately drop support for older technologies as a calculated attempt to force users to purchase new products to replace those made obsolete. [37] Most

proprietary software will ultimately reach an end-of-life point at which the supplier will cease updates and support, usually because the cost of code maintenance, testing and support exceed the

revenue generated from the old version. As free software and open source software can usually be updated and maintained at lower cost, the end of life date can be later. [38] Software that is

Laws and regulations [edit] This section needs to be **updated**. Please help update this article to reflect recent events or newly available information. (April 2021)

introduction of a flaw, a weakness, a scheduled stop, a technical limitation, incompatibility or other obstacles for repair". [citation needed]

The EESC organised a round table in Madrid in 2014 on 'Best practices in the domain of built-in obsolescence and collaborative consumption' which called for sustainable consumption to be a customer right in EU legislation. [44] Carlos Trias Pinto, president of the EESC's Consultative Commission on Industrial Change supports "the introduction of a labeling system which indicates the durability of a device, so the purchaser can choose whether they prefer to buy a cheap product or a more expensive, more durable product". [46] In 2015, as part of a larger movement against planned obsolescence across the European Union, France passed legislation requiring that appliance manufacturers and vendors declare the intended product lifespans, and to inform purchasers how long spare parts for a given product will be produced. From 2016, appliance manufacturers are required to repair or replace, free of

Shortening the replacement cycle has critics and supporters. Philip Kotler argues that: "Much so-called planned obsolescence is the working of the competitive and technological forces in a free

Critics such as Vance Packard claim the process is wasteful and exploits customers. With psychological obsolescence, resources are used up making changes, often cosmetic changes, that are

not of great value to the customer. Miles Park advocates new and collaborative approaches between the designer and the purchaser to challenge obsolescence in fast-moving sectors such as

See also [edit] Artificial demand Bathtub curve—a concept of typical product failure

• Batterygate—a term used to describe the implementation of performance controls on older models of Apple's iPhone line in order to preserve system stability on

system that staves off its replacement by manufacturing the illusion that it is perpetually new.<sup>[50]</sup>

Electronics right to repair—government legislation to allow people to repair their own devices

Software bloat—successive versions of a computer program requiring ever more computing power

Planned Obsolescence" (PDF). The Quarterly Journal of Muiris C.; Allwood, Julian M. (March 1, 2014). "Component

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 Hardware restriction—content protection enforced by electronic components. Interchangeable parts Light-weight Linux distribution—Linux distributions with lower hardware demands than other Linux distributions Maintainability – Ease of maintaining a functioning product

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