Office work: from laptop to land use

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Where is the office?

Anchored to people, paper, equipment – typewriter, desk, building
Therefore fixed 'working' hours – when offices are 'open'.

Where is the office, and what is office work?

Not the paperless office
Not home working

      Reduction of post
      Fixed phones
      New ways of storing paper (away)

For some people, there is greater **variety**

      hot desking
      'flexible' employment
      'flexible' hours..

      working **on the move**, in **different locations**
      (laptop, wireless, smart phones)

Email: always on; on everywhere……………………………………………

http://notable.ca/this-is-how-much-time-the-average-worker-spends-per-week-on-email/ (October 2015)

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Email takes 'average' of 13 hours or 28% of working week.

Average square footage per person targets have declined steadily

Square Footage per Person Targets

227 SQ. FT. — 10 years ago
205 SQ. FT. — 5 years ago
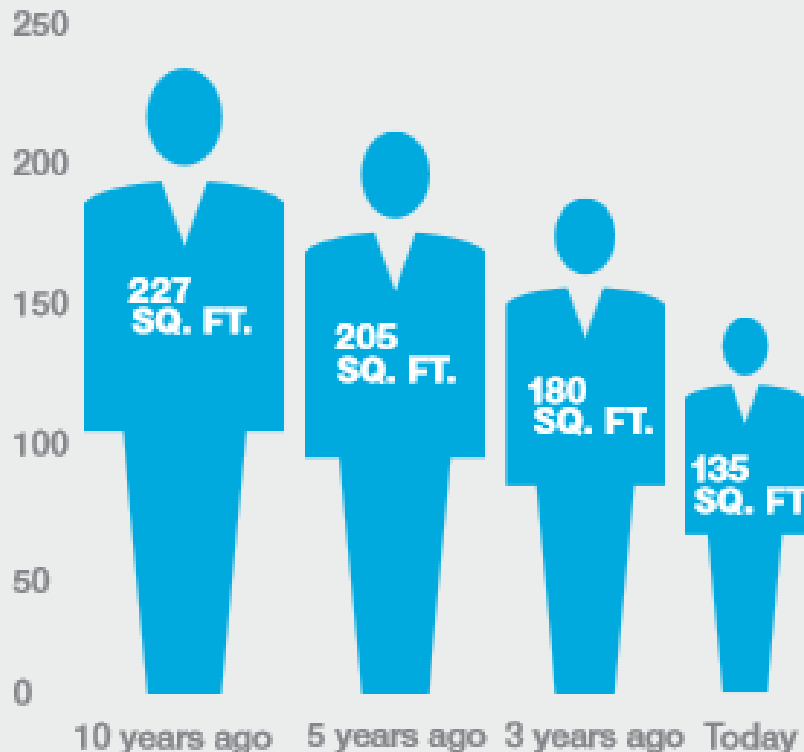180 SQ. FT. — 3 years ago
135 SQ. FT. — Today

Figure 2. Square footage per person targets have declined an average of 10% in each of the time intervals we studied. *Note: Participants were asked to provide square foot per employee targets for today, and over the past 3, 5, and 10 years. The square footages shown are the statistical mean of participant responses.*

The office is changing
And so is non domestic energy demand

The general rule of thumb is to allow anywhere between 125 and **225** usable square feet of office space per person.

average office costs per square foot per month in London **£52.50** (2016)
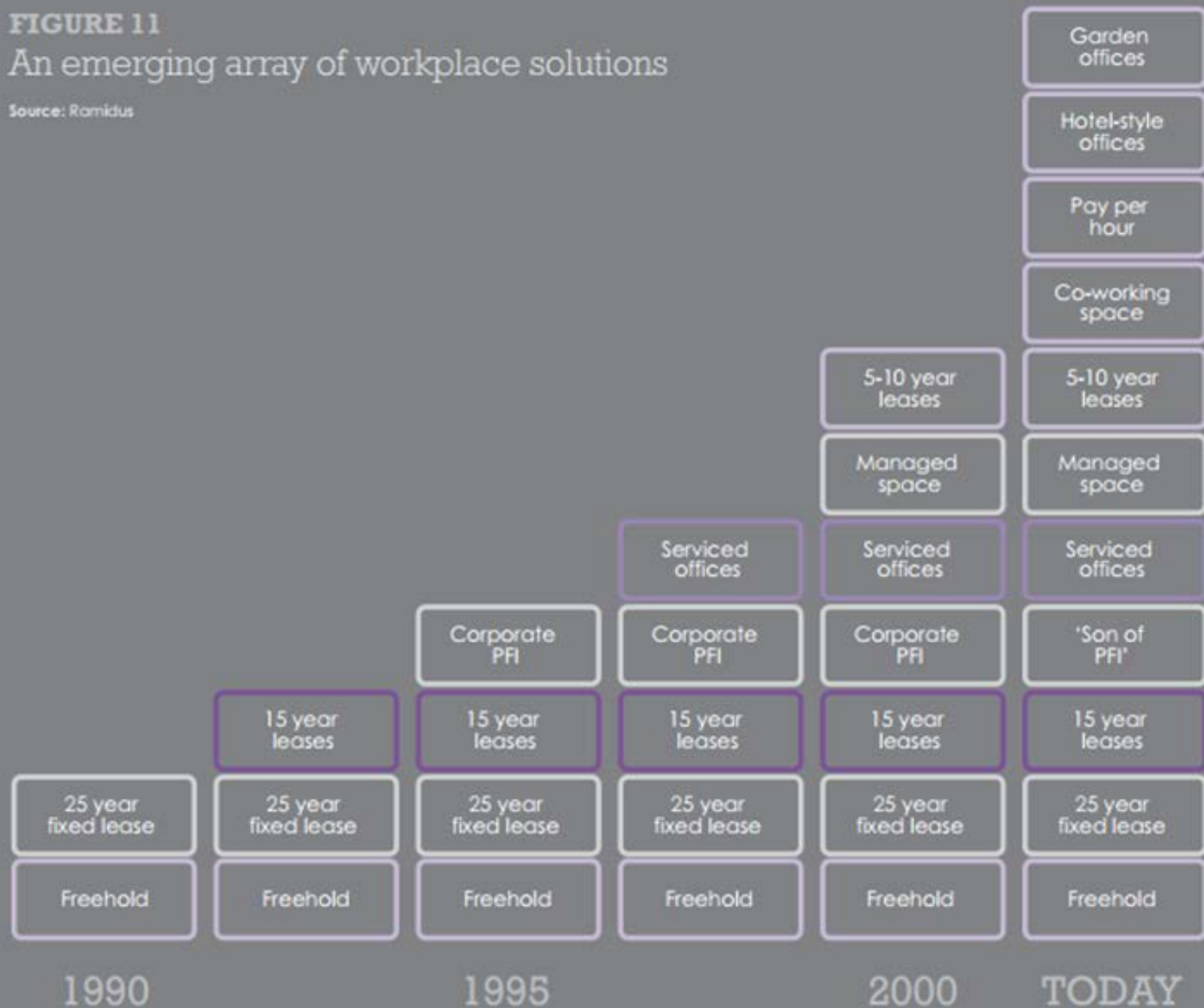
£45,000 per person per year

£9,600 per person per year

Unoccupied about 40-50% of the time

FIGURE 11

An emerging array of workplace solutions

Source: Ramidus

1990	1995		2000		TODAY
					Garden offices
					Hotel-style offices
					Pay per hour
					Co-working space
			5-10 year leases		5-10 year leases
			Managed space		Managed space
		Serviced offices	Serviced offices		Serviced offices
	Corporate PFI	Corporate PFI	Corporate PFI		'Son of PFI'
	15 year leases	15 year leases	15 year leases		15 year leases
25 year fixed lease	25 year fixed lease	25 year fixed lease	25 year fixed lease		25 year fixed lease
Freehold	Freehold	Freehold	Freehold		Freehold

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There are multiple places in which office work takes place

Heathrow is among the best with 3,050 plug sockets across the departure lounges in its five terminals, or roughly one for every two of the 6,250 passengers using them at any moment in time.

There are changing combinations of space, time and equipment

Office property market
Servicing (out of the centre)
Data and mobile/email traffic

Equipping of 'third' spaces:
trains, hotels…

Lifestyle | Food and drink

Recipes | Beer | Wine | Healthy eating | Restaurants | Pubs and bars | Wine shop

⌂ › Lifestyle › Food and drink › Food and drink features

Free wifi and comfy seats: London's best cafés to work in

There are new connections between infrastructures, appliances and practices

no internet, no work

Tethering: to the office
Detethering: from the office

Laptops+mobile wireless enable new forms of office work, and require/sustain different infrastructures.

Laptops condense/integrate and are portable – **when tied to relevant networks/internet.**

Where is the infrastructure now?

Office work and energy implications:

The use and lifecycle of ICT at home or work; or somewhere else.

Multiple impacts on other processes, forms of energy use, e.g. travel patterns

Long-term developments, e.g. urban development

The need for remote but reliable data servers and systems.

Where, when, how and by whom is office-work-related energy demand reconfigured?

Non-energy policies with energy outcomes

- – Digital government

- – Broadband, e.g. universal service obligation

- – Smart metering

- – Planning

- – Economic growth …but of what form?