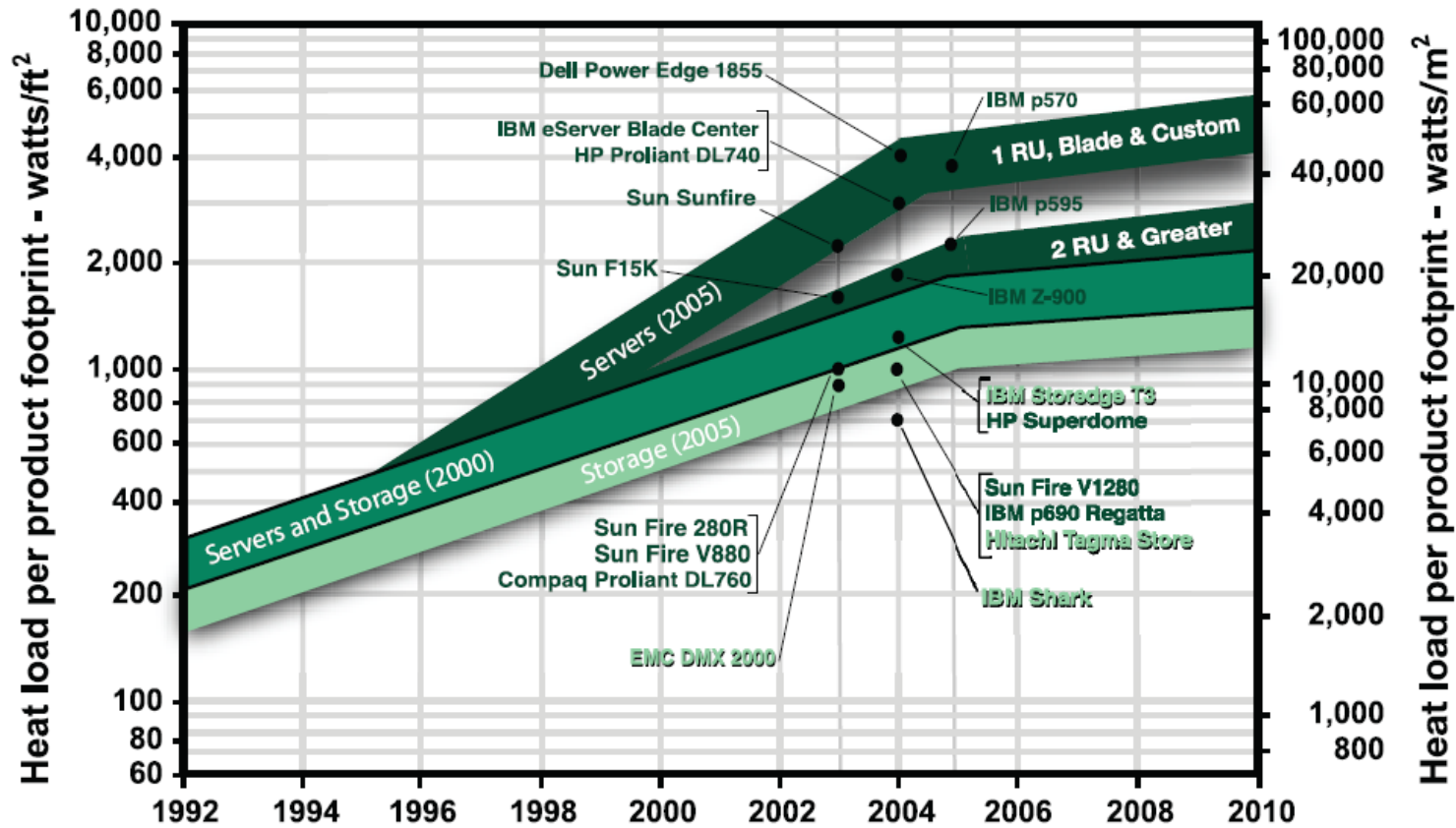


l'importanza delle infrastrutture tecnologiche

Figure 2: 2005-2010 Product Heat Density Trends Chart



Year of First Product Announcement / Year of First Product Shipment



2006 The Uptime Institute, Inc. Version 2.0 2005-2010 trend prediction data source: ASHRAE, Datacom Equipment Power Trends and Cooling Applications, 2005. American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc., www.ashrae.org.

costo delle infrastrutture

- l'andamento fino al 2005 aveva portato a fare preoccupanti previsioni nell'estrapolazione dei costi degli impianti
- che rimangono comunque elevati e in crescita

Table 1—Site TCO with a Constant \$1,000,000 Rate of 1U Server Spending

Year	Compute Units per \$1.0M (Year 2000 = 1)	Server Spend	Server kW	Site CapEx	3-Year Site Site Electric	3-Year Site TCO	3-Year Site TCO / Server Spend
2000	1	\$1.0M	32 kW	\$0.770 M	\$0.130M	\$0.460M	46%
2003	5	1.0	63	1.500	0.260	0.910	91
2006	27	1.0	125	3.000	0.500	1.810	181
2009	140	1.0	242	5.800	0.980	3.510	351
2012	729	1.0	482 ~ 170	11.600	1.950	7.000	699 ~ 250

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CNAF 2006: 60 kW, 400 kE -> 120kW/1 M\$