

*A Policy Framework for
Knowledge-Based Capital*

agenda

- background
- drivers of change
 - digitization
 - forms of “ownership”
- human capital, patents, tax
- policy design

Tangible Assets

intangible assets

- firm-level reporting
- national accounts

Corrado-Hulten-Sichel

investment in intangible assets

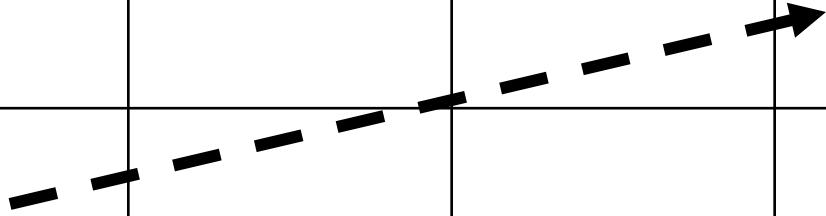
- Computerized Information
 - software
 - data
- Innovative Property
 - mineral exploration
 - scientific R&D
 - creative property
 - design
- Economic Competencies
 - brand equity
 - firm-specific human capital
 - organizational structure

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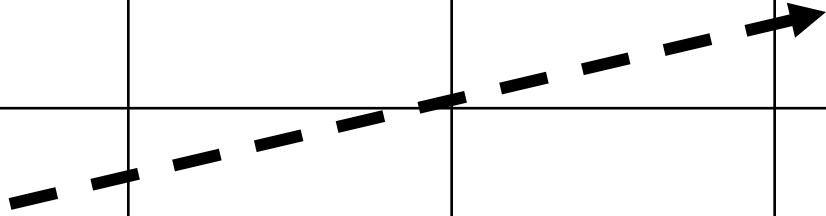
patents
copyrights
design rights
- Economic Competencies
 - brand equity
 - firm-specific human capital
 - organizational ~~structure~~ knowhow
 - networks between people and institutions

trademarks

	<i>intangible</i>	<i>intellectual</i>	<i>knowledge</i>	<i>knowledge-based</i>	<i>innovative</i>
<i>capital</i>				<i>KBC</i>	
<i>assets</i>	<i>IA</i>				
<i>property</i>					<i>CHS</i>
<i>property rights</i>					

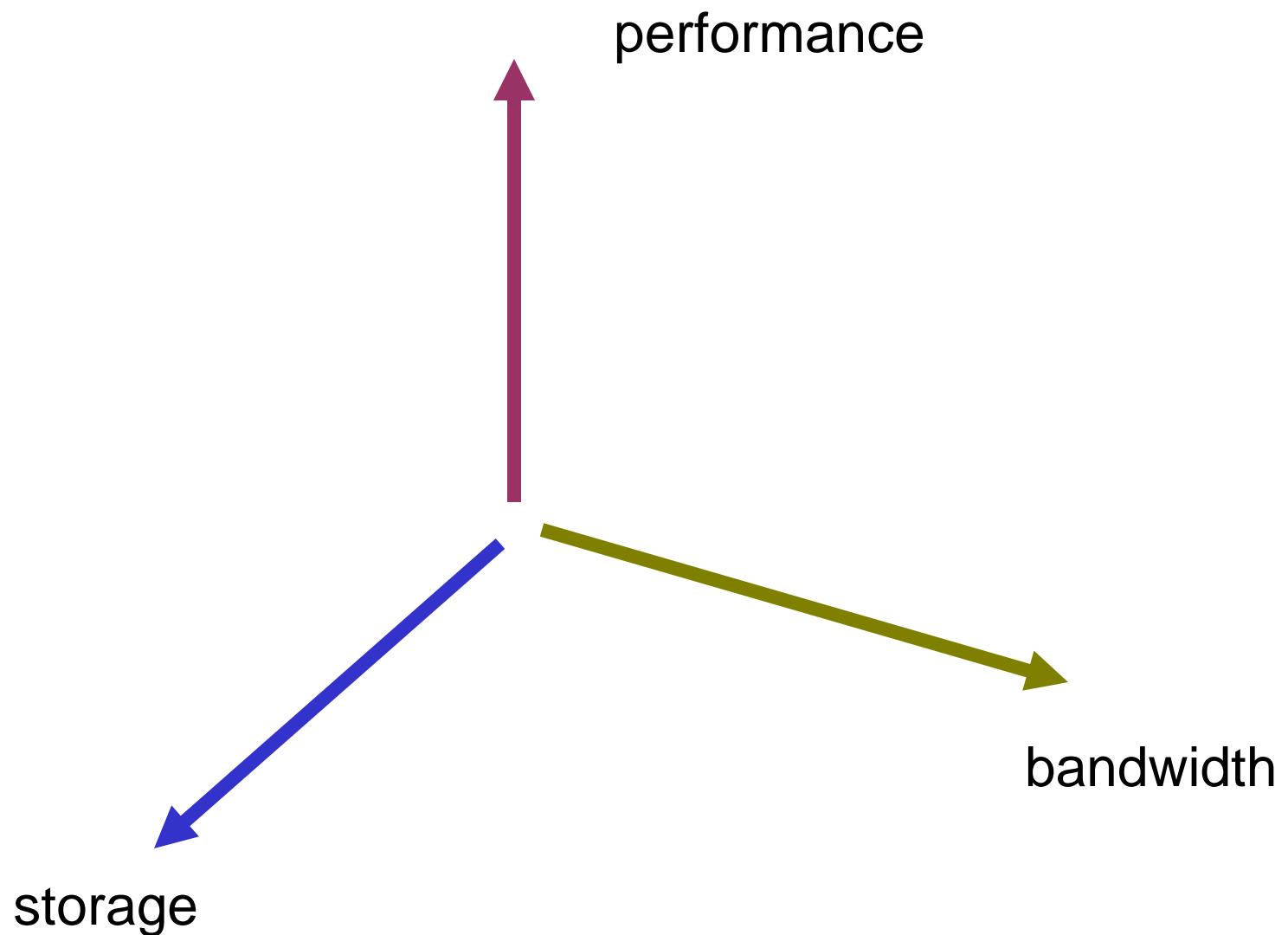


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<i>capital</i>				<i>KBC</i>	
<i>assets</i>	<i>IA</i>				
<i>property</i>		<i>IP</i>			<i>CHS</i>
<i>property rights</i>		<i>IPR</i>			



knowledge-based assets

- varying tradability, degrees and means of control
- distance from asset to market
- context-dependent value
 - vs market-centered/measured
 - many tech/business contexts, purposes
- unique >> knowledge about knowledge
 - opaque, imperfect, context-dependent
 - >> asymmetries, arbitrage
- changing parameters
 - digitization, “ownership”



digitization II: structural effects

- diversity, expansion, infrastructure
 - elements/forms: code, data, links, addresses
 - combinations and structures: websites, networks, VOs
 - platforms, modularity, complementarity
- boundary-spanning
 - products, companies, markets, jurisdictions
 - scale economies, diminished transaction costs

>>> globalization
- interaction with institutions (laws, organizations, skills....)

knowledge-based assets

- non-rivalrous (but variable excludability)
- license/contract-defined
- relationship-dependent
- mixed/hybrid ownership (ICT standards, PPPs)
- new asset classes
 - SPV, CDO, CDO squared, CDS....
 - shell, PAE (troll), aggregator, sovereign patent fund

**Tangible
Assets**

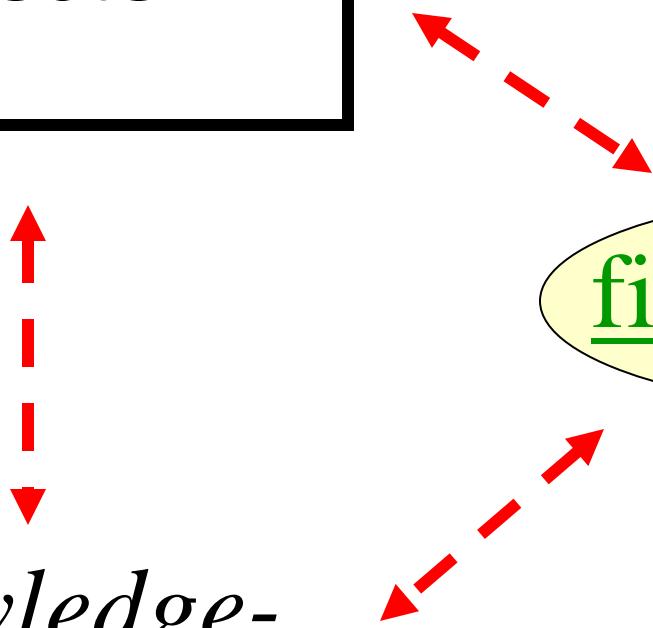
financial assets

*knowledge-
based assets*

**Tangible
Assets**

*knowledge-
based assets*

financial assets



“IP rights are the global currency for creating value for products and services, for all innovators, in all markets.”