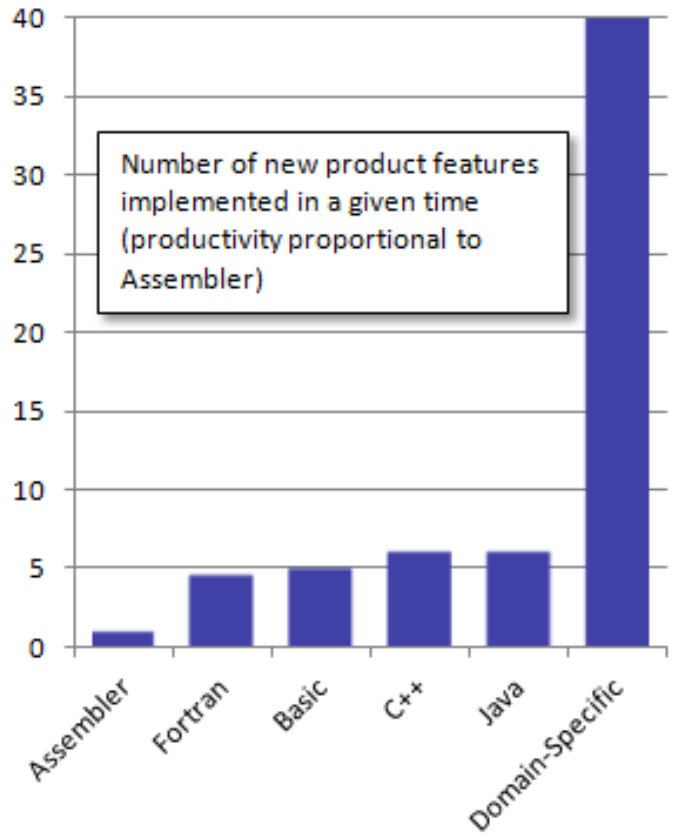
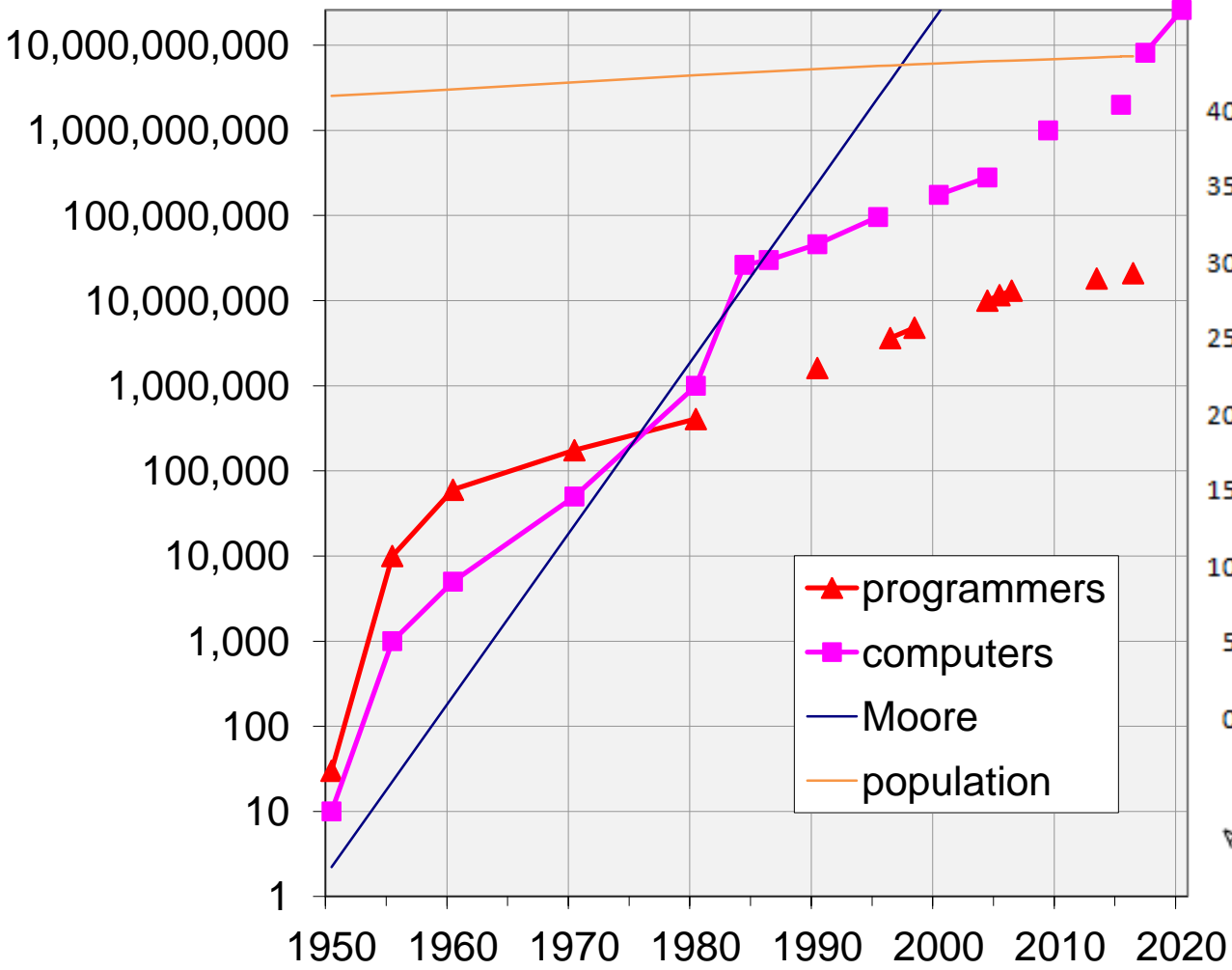


# Modeling by the people, for the people

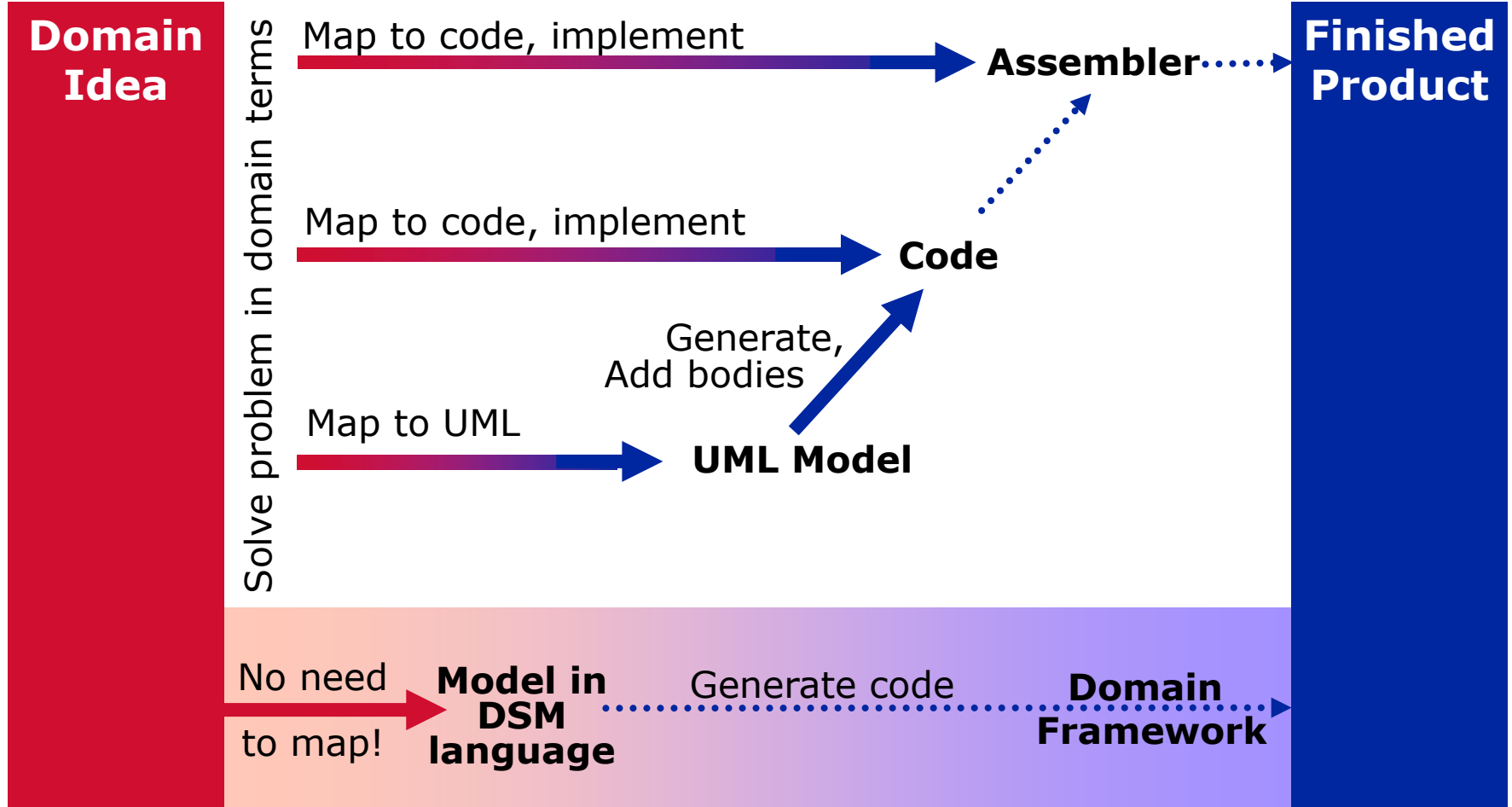
Steven Kelly, MetaCase  
GRAND, 21 July, 2017



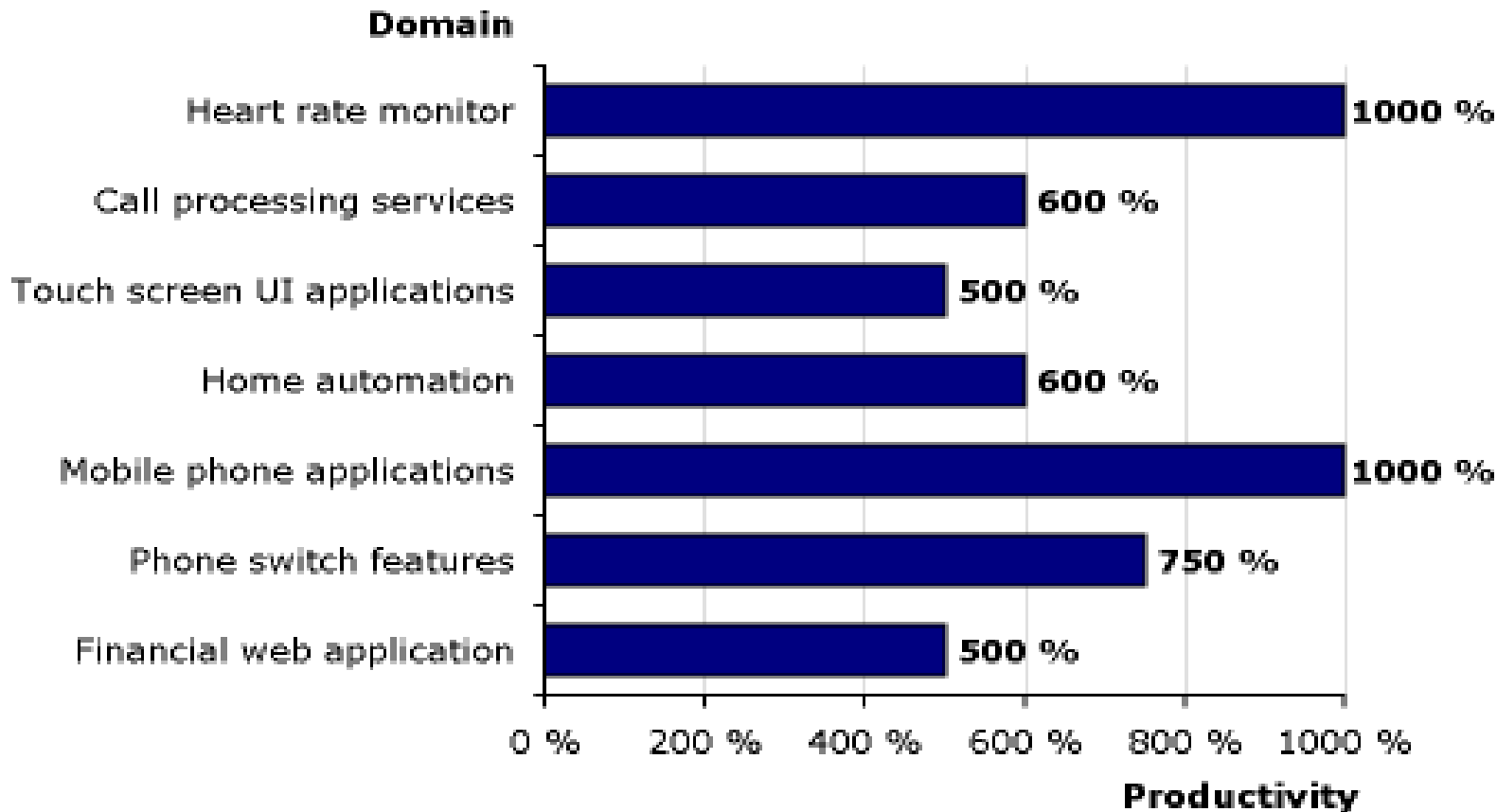


Number of new product features implemented in a given time (productivity proportional to Assembler)

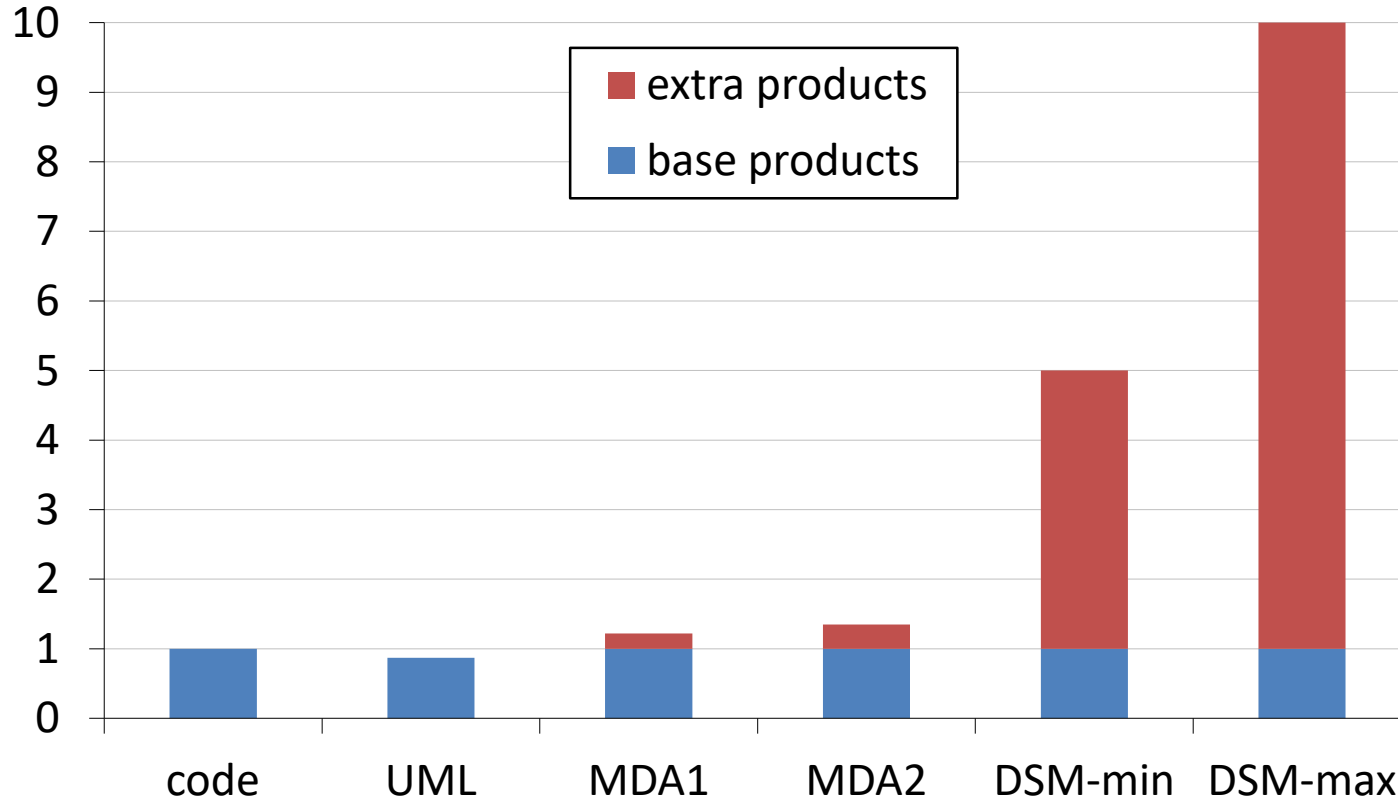
# Modelling functionality vs. modelling code



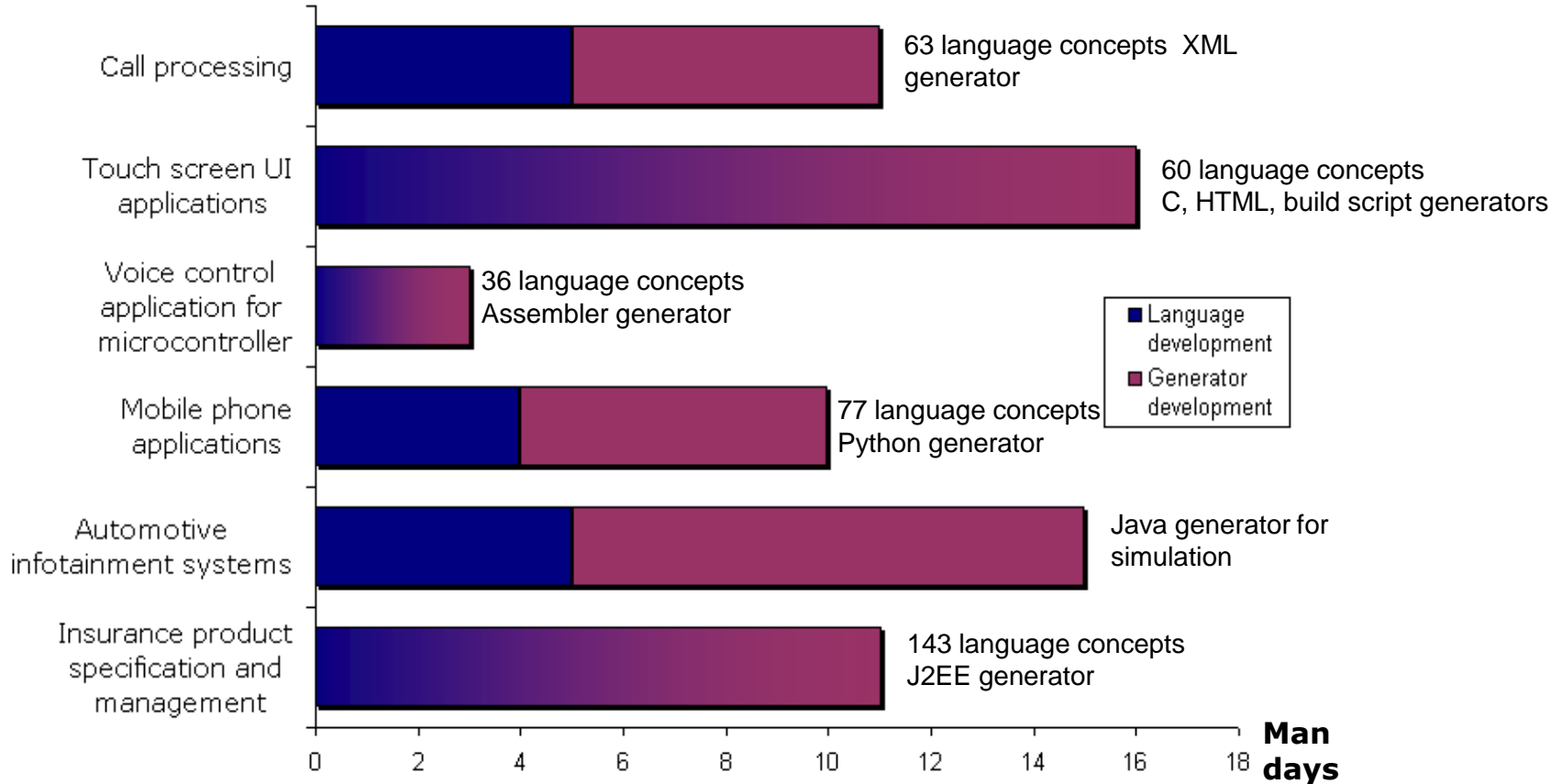
# Domain-Specific Modeling: 5-10x faster than coding or UML



# Productivity of development compared to hand-coding



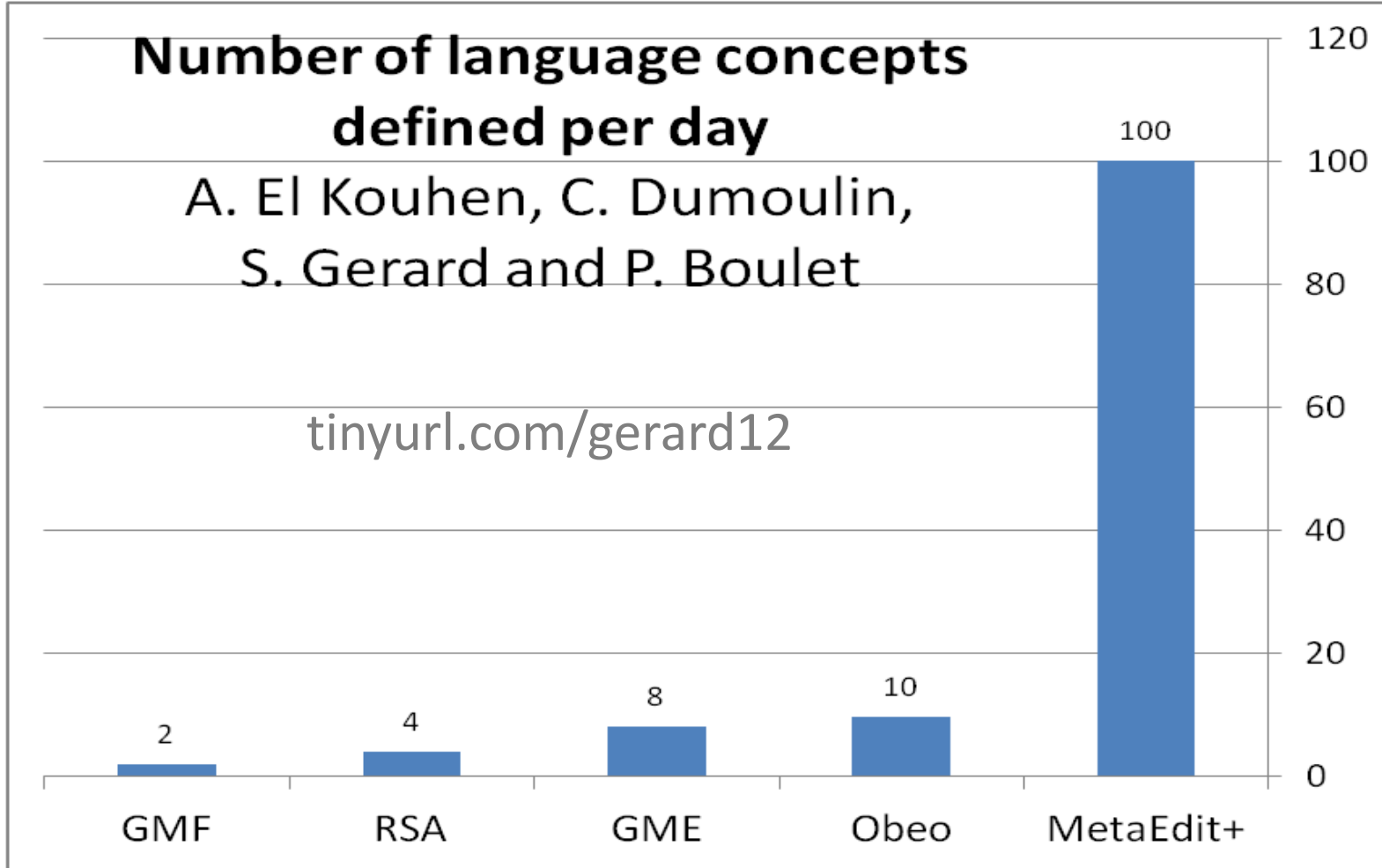
# DSM Solution Development Time



# Number of language concepts defined per day

A. El Kouhen, C. Dumoulin,  
S. Gerard and P. Boulet

[tinyurl.com/gerard12](http://tinyurl.com/gerard12)



BPMN  
(n=50)

5 weeks

1 week

4 hours



MetaCase

**Thank you!**



# Referenced DSM Cases

(for more see [www.dsmforum.org](http://www.dsmforum.org))

Heart rate monitor	Polar	Kärnä et al., <a href="#">Evaluating the use of DSM in embedded UI application development</a> , Procs of DSM'09 at OOPSLA, 2009.
Call processing services		Kelly, S., Tolvanen, J.-P., Chapter 5, <a href="#">Domain-Specific Modeling: Enabling Full Code Generation</a> , Wiley, 2008. [CPL project in <a href="#">MetaEdit+</a> ]
Touch screen UI applications	Panasonic	Safa, L., <a href="#">The Making Of User-Interface Designer: A Proprietary DSM Tool</a> , Procs of DSM'07 at OOPSLA, 2007.
Home automation		Kelly, S., Tolvanen, J.-P., Chapter 5, <a href="#">Domain-Specific Modeling: Enabling Full Code Generation</a> , Wiley, 2008. [Home automation project in <a href="#">MetaEdit+</a> ]
Mobile phone applications	Nokia	MetaCase, <a href="#">Nokia case study</a> , 2000
Phone switch features		Weiss, D. M., Lai, C. T. R., <a href="#">Software Product-line Engineering: A Family-Based Software Development Process</a> , Addison Wesley Longman, 1999.
Financial web application	Pecunet	Kelly, S., Tolvanen, J.-P., Chapter 6, <a href="#">Domain-Specific Modeling: Enabling Full Code Generation</a> , Wiley, 2008. MetaCase, <a href="#">Pecunet case study</a> , 2001. IASA Architect Skills Library: <a href="#">Domain-Specific Modeling</a> , 2007. [Insurance project in <a href="#">MetaEdit+</a> ]