WP2.1 Scalability (size matters...)

- Outline the workpackage
- Link up with expertise of participants
- Indicate organisation

1

The Web is large ... 5 seconds later... it's even larger

we need scalable methods

2

Ways to scalability

- **■**Approximation
- **■**Modularisation
- **Distribution**
- **I**...
- Requires adaptation of existing methodologies
- Requires **benchmarking** to measure success

3

How to do approximation

- knowledge compilation
- language weakening
- approximate deduction
- anytime algorithms

4

How to do modularisation

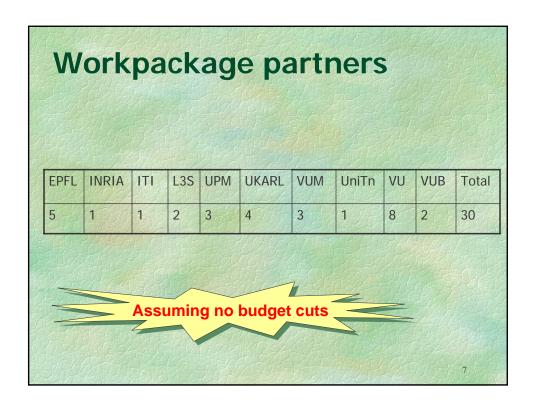
- principles of information hiding
- view definition/query formulation
 - link with 2.5-language-extension
- mapping rules
 - link with 2.2-heterogeneity
- inclusion mechanisms
 - link with 2.3 dynamics

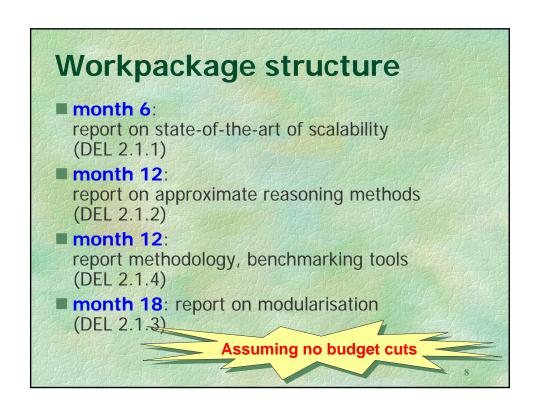
5

How to do distribution

- Distributed description logics
- ■C-OWL as language extension
 - Link with 2.5
- Distributed decision procedures

6





Proposed plan

- ■2.1.1 (state of the art): lead by VU
- ■2.1.2 (scalable methods): lead by VU
- ■2.1.3 (modularisation): lead by EPFL?
- ■2.1.4 (benchmarking & methodology): lead by UKARL & UPM

9

Proposed organisation

- mailing list
 - inform VU on contact person for each partner
- 1st meeting (A'dam, in week of March 1-4)
 - first progress for state-of-art review)
 - kick-off for other activities
- 2nd meeting early September
 - progress meeting on approximate reasoning-methods
 - progress meeting on benchmarking/methodology
 - kick-off for modularisation
- 3rd meeting early March'05
- core participants expected to participate (VU,VUM,EPFL,UPM,UKARL)
- other members can choose per meeting

U