Identifiers for PhD theses and research students How can we make it happen?

Stephen Grace¹, Sara Gould², Rachael Kotarski³, Michael Whitton⁴

Aims

By their very nature PhD theses break new ground and advance research. They are often the first scholarly output produced by early researchers, and it makes sense to embrace new initiatives like identifiers right at the beginning of the research process.

Unlocking Thesis Data⁵

Applying Digital Object Identifiers (DOI) to all theses and encouraging doctoral students to hold an ORCID iD will:

- Provide easily citeable theses and data
- Grow usage, and support metrics & altmetrics
- Embed good data management practice early on
- Help track career paths and impact of funding

In 2015, the Unlocking Thesis Data project took a snapshot of progress in the application of thesis DOIs and student ORCID iDs across the UK, and recommended some actions for institutions, repository systems, and the British Library's EThOS service.



Case Study

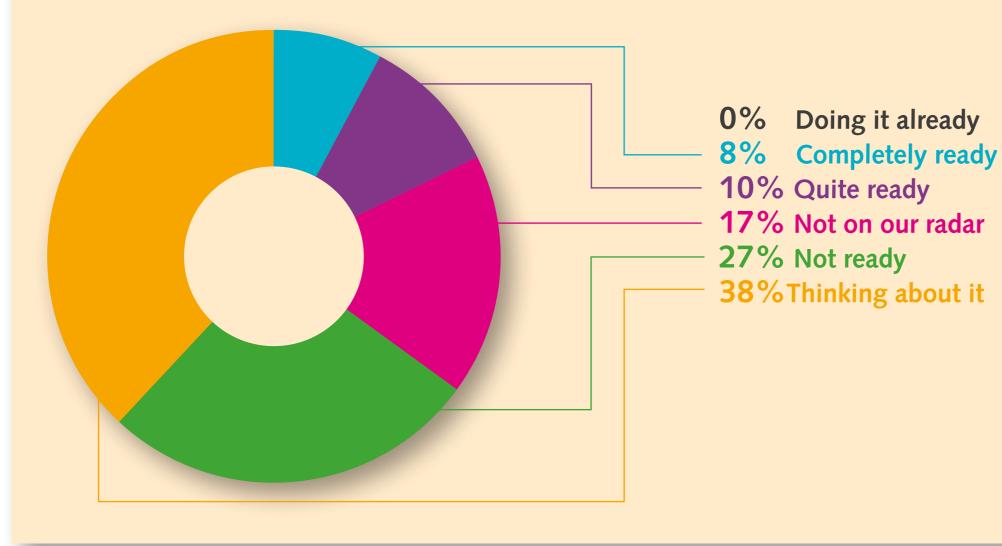
In 2015, the University of Southampton was already minting DOIs for its datasets through DataCite, but not for theses, even though all outputs were held in the same repository, ePrints Soton. Now, there is an approved DOI allocation policy, which for theses will be to issue separate DOIs for the main PhD document and substantive underpinning data.

ORCID promotion is now embedded in research student training. ORCID management is moving from an in-house system to Pure, and registration will be embedded in Doctoral College practice.

The Pure system will be used to handle theses once it is live. And all new theses will be given a DOI, once this functionality has been developed and implemented in the ePrints Soton-Pure connector.

In 2015, we asked:

"How ready are you to assign DOIs for your theses?"



What about EThOS?

- The uketd_dc metadata schema has been extended to include author and thesis identifiers
- There are now 63 thesis authors in EThOS with an ORCID iD
- We ran 'live' experimental minting of 3 DOIs and added them to EThOS
- We need to update our plug-ins to be able to harvest the new data from repositories
- And we're planning an ORCID claim button with the help of the EU-funded THOR project⁶

By July 2016, there is progress:

- London School of Hygiene & Tropical Medicine has an EPrints repository, and now assigns DOIs to all theses
- University of Cambridge upgraded to DSpace V5, and has started to mint DOIs for its theses
- University of Southampton has a policy for DOI allocation, and will launch thesis DOIs when they move to Pure
- University of Bath adds DOIs to their datasets and can link those outputs to their theses
- Many HEIs have joined DataCite to begin creating thesis DOIs
- University of the Arts London, LSE and many more are planning to do so soon!

	search Search results	Login	Register About Help FAG		
the data (10) to allo as	link to this record in EThOS:	bile failure bi skiQadasPada	is de?hiers it bi sikes 850388		
Use this UKL to cite of					
		University of Glasgow	7		
Title:	Towards a new solution of shareholders have a void		rotection in Libya : letting	the minority	
Author:	Abdou, Majdi A.	761	ISNI:	0000 0004 4892 2493	
Awarding Body:	University of Glasgow				
Current Institution:	University of Glasgow				
Date of Award:	2015				
Availability of Full Text:	Access through EThOS:	Thesis available for introdule	cowholed, wintpact & delivery options.		
	Access through institution:	8 http://theses.gla.ac.uk/8	5423/		
Abstract:					
majority shareholder pro	d majority shareholders in Libys oblem and applying it to the case areholders actions) as a solution	e of Libya. After that, I examin	e the efficacy of the current m	echanism /lable in	
between the minority an majority shareholder pro Libyan law (minority sha majority shareholders in either the efficiency of th prohibition strategy), I pr capital from investors, an Finally, the self-enforcing model will inevitably lead		e of Libya. After that, I examin for dealing with the conflict of he current approach is not app ion and enforcement in Libya. I as the most appropriate solu conflict of interest transaction of for external monitoring. Ho as the risk that the minority sh	In the efficacy of the current m interests between the minorit propriate for Libys for several a After examining other possible tion since it contributes to com a and makes a company's trar wever, this is not the end of the areholders may abuse their rig that are appropriate to Libya.	echanism lable in y shareh s and the reasons t elate to e solution s.g. a panies b a able raise isactions ore efficient. e story: 4 pting such a	
between the minority an majority shareholder pro Libyan law (minority sha majority shareholders in either the efficiency of th prohibition strategy), I pr capital from investors, at Finally, the self-enforcing model will inevitably lead the formulation and adop	oblem and applying it to the cas areholders actions) as a solution Libyan companies. However, it the approach itself or its applicat ropose the self-enforcing model ind it also lowers the number of g model does away with the new d to some potential risks (such a ption of new and specific strateg	e of Libya. After that, I examin for dealing with the conflict of the current approach is not app ion and enforcement in Libya. I as the most appropriate solu conflict of interest transaction of for external monitoring. Ho as the risk that the minority sh glies of corporate governance	the the efficacy of the current m interests between the minorit roportate for Libra for several <i>i</i> After examining other possible tion since it contributes to com s and makes a company's trar wever, this is not the end of the areholders may abuse their rig that are appropriate to Libya. Not an	echanism y shareh reasons t e solution panies b reactions paties b reactions paties b reactions present paties b reactions present paties b reactions present paties b reactions present paties present presen	
between the minority an majority shareholder pro Libyan law (minority sha majority shareholders in either the efficiency of th prohibition strategy), I pr capital from investors, at Finally, the self-enforcing model will inevitably lead the formulation and adop Supervisor:	oblem and applying it to the cass neholders actions) as a solution Libyan companies. However, it he approach itself or its applicat ropose the self-enforcing model and it also lowers the number of g model does away with the nei d to some potential risks (such a ption of new and specific strate Not available	e of Libya. After that, I examin for dealing with the conflict of the current approach is not app ion and enforcement in Libya. I as the most appropriate solu conflict of interest transaction of for external monitoring. Ho as the risk that the minority sh gies of corporate governance Sponsor:	e the efficacy of the current m interests between the minorit roporate for Libra for several <i>i</i> After examining other possible tion since it contributes to com a and makes a company's trar wever, this is not the end of the archoiders may abuse their rig that are appropriate to Libra. Not an et: Docto	echanism y shareh reasons t e solution panies b reactions paties b reactions paties b reactions present paties b reactions present paties b reactions present paties b reactions present paties present presen	
between the minority an majority shareholder pro Libyan law (minority sha majority shareholders in either the efficiency of th prohibition strategy), I pr capital from investors, at Finally, the self-enforcing model will inevitably lead the formulation and adop Supervisor: Qualification Name:	oblem and applying it to the cass reholders actions) as a solution Libyan companies. However, the approach itself or its applicat ropose the self-enforcing model ind it also lowers the number of g model does away with the new d to some potential risks (such a ption of new and specific strates Not available Thesis (Ph.D.)	e of Libya. After that, I examin for dealing with the conflict of the current approach is not app ion and enforcement in Libya. I as the most appropriate solu conflict of interest transaction of for external monitoring. Ho as the risk that the minority ab gies of corporate governance Sponsor: Qualification Lev	e the efficacy of the current m interests between the minorit roporate for Libra for several <i>i</i> After examining other possible tion since it contributes to com a and makes a company's trar wever, this is not the end of the archoiders may abuse their rig that are appropriate to Libra. Not an et: Docto	echanism y shareh reasons t e solution panies b sactions philes b sactions philes b sactions philes b sactions philes b satism philes b satism	
between the minority an majority shareholder pro Libyan law (minority sha majority shareholders in either the efficiency of th prohibition strategy), 1 pr capital from investors, a Finally, the self-enforcing model will inevitably lead the formulation and adop Supervisor: Qualification Name: EThOS ID:	oblem and applying it to the cass reholders actions) as a solution Libyan companies. However, it he approach itself or its applicat ropose the self-enforcing model and it also lowers the number of g model does away with the new d to some potential risks (such a ption of new and specific stratey Not available Thesis (Ph.D.) uk.bl.ethos.850388 K Law (General)	e of Libya. After that, I examin for dealing with the conflict o he current approach is not app ion and enforcement in Libya. I as the most appropriate solu conflict of interest transaction ed for external monitoring. Ho as the risk that the minority ah gies of corporate governance Sponsor: Qualification Lev DOI: Tweet In LinkedIn	e the efficacy of the current m Interests between the minorit Interests between the minorit After examining other possible tion since it contributes to com and makes a company's trar wever, this is not the end of the areholders may abuse their ng that are appropriate to Libya. Not an rel: Docto 10.552 Email CiteULike C Blog	echanism y shareh reasons t e solutior panies b sactions e story; i hts), wh vailable ral Sigla these 6423	
between the minority an majority shareholder pro Libyan law (minority sha majority shareholders in either the efficiency of th prohibition strategy), 1 pr capital from investors, at Finally, the self-enforcing model will inevitably lead the formulation and adoy Supervisor: Qualification Name: EThOS ID: Keywords:	oblem and applying it to the cass reholders actions) as a solution Libyan companies. However, the approach itself or its applicat ropose the self-enforcing model and it also lowers the number of g model does away with the new d to some potential risks (such a ption of new and specific strateg Not available Thesis (Ph.D.) uk.bl.ethos.850388 K Law (General) ShareThis F facebook	e of Libya. After that, I examine for dealing with the conflict of he current approach is not ap- ion and enforcement in Libya. I as the most appropriate solu- conflict of interest transaction ed for external monitoring. Ho as the risk that the minofity at gies of corporate governance Sponsor: Qualification Lev DOI: Tweet In LinkedIn ETHOS e-these Basic search Advanced	e the efficacy of the current m I interests between the minorit Propriate for Libra for several a After examining other possible tion since it contributes to com and makes a company's trar wever, this is not the end of the areholders may abuse their ng that are appropriate to Libya. Not an el: Docto 10 552 Email CiteUILike Biog Biog Sonline_service search Search results	echanism y shareh e solution panies b isactions e story; e hts), wit vallable rail Sigla tress 5423	in / Register About Help FAQ Follow
between the minority an majority shareholder pro Libyan law (minority sha majority shareholders in either the efficiency of th prohibition strategy), 1 pr capital from investors, at Finally, the self-enforcing model will inevitably lead the formulation and adop Supervisor: Qualification Name: EThOS ID: Keywords:	oblem and applying it to the cass reholders actions) as a solution Libyan companies. However, the approach itself or its applicat ropose the self-enforcing model and it also lowers the number of g model does away with the new d to some potential risks (such a ption of new and specific strateg Not available Thesis (Ph.D.) uk.bl.ethos.850388 K Law (General) ShareThis F facebook	e of Libya. After that, I examine for dealing with the conflict of he current approach is not ap- ion and enforcement in Libya. I as the most appropriate solu- conflict of interest transaction ed for external monitoring. Ho as the risk that the minofity at gies of corporate governance Sponsor: Qualification Lev DOI: Tweet In LinkedIn ETHOS e-these Basic search Advanced	e the efficacy of the current m I interests between the minorit Propriate for Libra for several a After examining other possible tion since it contributes to com and makes a company's trar wever, this is not the end of the areholders may abuse their ng that are appropriate to Libya. Not an el: Docto 10 552 Email CiteUILike Biog Biog Sonline_service search Search results	echanism y shareh e solution panies b isactions e story; e hts), wit vallable rail Sigla tress 5423	etails.do?uin×uk.bl.ethos.550255
between the minority an majority shareholder pro Libyan law (minority sha majority shareholders in either the efficiency of th prohibition strategy), I pr capital from investors, at Finally, the self-enforcing model will inevitably lead the formulation and adop Supervisor: Qualification Name: EThOS ID: Keywords:	oblem and applying it to the cass reholders actions) as a solution Libyan companies. However, the approach itself or its applicat ropose the self-enforcing model and it also lowers the number of g model does away with the new d to some potential risks (such a ption of new and specific strateg Not available Thesis (Ph.D.) uk.bl.ethos.850388 K Law (General) ShareThis F facebook	e of Libya. After that, I examine for dealing with the conflict o he current approach is not ap- ion and enforcement in Libya. I as the most appropriate solu- conflict of interest transaction ed for external monitoring. Ho as the risk that the minority sh- gies of corporate governance Sponsor: Qualification Lev DOI: Tweet In LinkedIn ETHOS e-these Basic search Advanced Use this URL to cite of Title:	e the efficacy of the current m if interests between the minorit roporate for Libys for several i After examining other possible ton since it contributes to com s and makes a company's tran- wever, this is not the end of the archoiders may abuse their rig- that are appropriate to Libya. Not an rel: Docto 10.552 Email CiteULike C Biog Search Search results r link to this record in EThOS Seeing triple : archaeo	echanism y shareh reasons t e solution panies b isactions e story; e alts), where rail Sign bress \$423 ger Ce E: http://ethos.bl.uk/OrderDe	etails.do?uin=uk.bl.ethos.550256
between the minority an majority shareholder pro Libyan law (minority sha majority shareholders in either the efficiency of th prohibition strategy), 1 pr capital from investors, at Finally, the self-enforcing model will inevitably lead the formulation and adop Supervisor: Qualification Name: EThOS ID: Keywords:	oblem and applying it to the cass reholders actions) as a solution Libyan companies. However, the approach itself or its applicat ropose the self-enforcing model and it also lowers the number of g model does away with the new d to some potential risks (such a ption of new and specific strateg Not available Thesis (Ph.D.) uk.bl.ethos.850388 K Law (General) ShareThis F facebook	e of Libya. After that, I examine for dealing with the conflict o he current approach is not ap- ion and enforcement in Libya. I as the most appropriate solu- conflict of interest transaction ed for external monitoring. Ho as the risk that the minority sh- gies of corporate governance Sponsor: Qualification Lev DOI: Tweet In LinkedIn ETHOS e-these Basic search Advanced Use this URL to cite of Title: Author:	e the efficacy of the current m f interests between the minorit f interests between the minorit After examining other possible ton since it contributes to com s and makes a company's tran wever, this is not the end of the archolders may abuse their rig that are appropriate to Libya. Not an rel: Docto 10.552 Email CiteULike C Biog Secontine_Service d search Search results r link to this record in EThOS Seeing triple : archaeol Wright, Holly	echanism y shareh reasons t e solution panies b isactoraj e story; e alable rail Sigla besis 6423 ger Ce Log S: http://ethos.bl.uk/OrderDi THE UNIVERSITY of for	etails.do?uin=uk.bl.ethos.550256 % e Semantic Web
between the minority an majority shareholder pro Libyan law (minority sha majority shareholders in either the efficiency of th prohibition strategy), 1 pr capital from investors, at Finally, the self-enforcing model will inevitably lead the formulation and adoy Supervisor: Qualification Name: EThOS ID: Keywords:	oblem and applying it to the cass reholders actions) as a solution Libyan companies. However, the approach itself or its applicat ropose the self-enforcing model and it also lowers the number of g model does away with the new d to some potential risks (such a ption of new and specific strateg Not available Thesis (Ph.D.) uk.bl.ethos.850388 K Law (General) ShareThis F facebook	e of Libya. After that, I examine for dealing with the conflict o he current approach is not ap- ion and enforcement in Libya. I as the most appropriate solu conflict of interest transaction ed for external monitoring. Ho as the risk that the minority sh gies of corporate governance Spomsor: Qualification Lev DOI: Tweet In LinkedIn ETHOS e-these Basic search Advanced Use this URL to cite o Title: Author: Awarding Body:	e the efficacy of the current m if interests between the minorit roportiste for Libys for several i After examining other possible tion since it contributes to com s and makes a company's trai wever, this is not the end of the archolders may abuse their rig that are appropriate to Libya. Not an rel: Docto 10.852 Email CiteULike C Blog Es online_service d search Search results r link to this record in EThOS Seeing triple : archaeol Wright, Holly University of York	echanism y shareh reasons t e solution panies b isactoraj e story; e alable rail Sigla besis 6423 ger Ce Log S: http://ethos.bl.uk/OrderDi THE UNIVERSITY of for	etails.do?uln=uk.bl.ethos.550255 & e Semantic Web Is this your the
between the minority an majority shareholder pro Libyan law (minority sha majority shareholders in either the efficiency of th prohibition strategy), 1 pr capital from investors, at Finally, the self-enforcing model will inevitably lead the formulation and adop Supervisor: Qualification Name: EThOS ID: Keywords:	oblem and applying it to the cass reholders actions) as a solution Libyan companies. However, the approach itself or its applicat ropose the self-enforcing model and it also lowers the number of g model does away with the new d to some potential risks (such a ption of new and specific strateg Not available Thesis (Ph.D.) uk.bl.ethos.850388 K Law (General) ShareThis F Accebook	e of Libya. After that, I examine for dealing with the conflict o he current approach is not ap- ion and enforcement in Libya. I as the most appropriate solu- conflict of interest transaction ed for external monitoring. Ho as the risk that the minority sh- gies of corporate governance Sponsor: Qualification Lev DOI: Tweet In LinkedIn ETHOS e-these Basic search Advanced Use this URL to cite of Title: Author:	e the efficacy of the current m f interests between the minorit f interests between the minorit After examining other possible ton since it contributes to com s and makes a company's tran wever, this is not the end of the archolders may abuse their rig that are appropriate to Libya. Not an rel: Docto 10.552 Email CiteULike C Biog Secontine_Service d search Search results r link to this record in EThOS Seeing triple : archaeol Wright, Holly	echanism y shareh reasons t e solution panies b isactoraj e story; e alable rail Sigla besis 6423 ger Ce Log S: http://ethos.bl.uk/OrderDi THE UNIVERSITY of for	etails.do?uin=uk.bl.ethos.550255 4c e Semantic Web Is this your the Add it to you
between the minority an majority shareholder pro Libyan law (minority sha majority shareholders in either the efficiency of th prohibition strategy), 1 pr capital from investors, at Finally, the self-enforcing model will inevitably lead the formulation and adoy Supervisor: Qualification Name: EThOS ID: Keywords:	oblem and applying it to the cass reholders actions) as a solution Libyan companies. However, the approach itself or its applicat ropose the self-enforcing model and it also lowers the number of g model does away with the new d to some potential risks (such a ption of new and specific strateg Not available Thesis (Ph.D.) uk.bl.ethos.850388 K Law (General) ShareThis F Accebook	e of Libya. After that, I examine for dealing with the conflict o he current approach is not ap- ion and enforcement in Libya. I as the most appropriate solu conflict of interest transaction ed for external monitoring. Ho as the risk that the minority sh gies of corporate governance Spomsor: Qualification Lev DOI: Tweet In LinkedIn ETHOS e-these Basic search Advanced Use this URL to cite o Title: Author: Awarding Body:	e the efficacy of the current m if interests between the minorit roportiste for Libys for several i After examining other possible tion since it contributes to com s and makes a company's trai wever, this is not the end of the archolders may abuse their rig that are appropriate to Libya. Not an rel: Docto 10.852 Email CiteULike C Blog Es online_service d search Search results r link to this record in EThOS Seeing triple : archaeol Wright, Holly University of York	echanism y shareh reasons t e solution panies b isactoraj e story; e alable rail Sigla besis 6423 ger Ce Log S: http://ethos.bl.uk/OrderDi THE UNIVERSITY of for	etails.do?uln=uk.bl.ethos.550255 & e Semantic Web Is this your the

Recommendations for institutions

- Mint DOIs for your theses!
- Share your experiences
- Encourage your PhD students to register for an ORCID iD
- Check your OAI-PMH export and map your identifier data to the export fields
- Let EThOS know when you start adding thesis DOIs and student ORCID iDs to your data
- Agitate for enhancements to your repository systems

In collaboration with

UNLOCKING THESIS DATA

Funded by Jisc under its Phase 1 Data Spring call, April – July 2015

References 1 London South Bank University. 2 British Library. 3 British Library. 4 University of Southampton. 5 Grace, Stephen et al. *Mapping the UK thesis landscape: Phase 1 project report for Unlocking Thesis Data*. University of East London http://doi.org/10.15123/pub.4307 6 http://project-thor.eu

UTD blog https://unlockingthesisdata.wordpress.com EThOS@bl.uk



. . . .



