

Christopher M. Jones President and Chief Executive Officer Uranium Resources, Inc.

(Nasdaq: URRE) (ASX:URI)

August 23, 2016



CAUTIONARY STATEMENT

This presentation contains forward-looking statements within the meaning of the Private Securities Litigation Reform Act of 1995. Forward-looking statements are subject to risks, uncertainties and assumptions and are identified by words such as "expects," "estimates," "projects," "anticipates," "believes," "could," and other similar words. All statements addressing operating performance, events, or developments that Uranium Resources Inc. ("URI") expects will occur in the future, including but not limited to statements relating to (i) mineralization and other developments at our lithium and uranium projects, (ii) synergies between our uranium and lithium businesses, (iii) the timing, occurrence, rates and cost of production at the properties in the United States and Turkey, including statements regarding future growth pipeline, (iv) the timing and completion of the transaction with Laramide Resources Ltd., (v) the cost of lithium and uranium production at the properties, (vi) future prices and demand for lithium and uranium (vii) capital resources, capitalization and ownership, including relationships with major shareholders, (viii) additions of reserves and resources and the occurrence, extent and results of any future exploration program, (ix) mineral resources and exploration results, which includes inferred resources (see "Cautionary Note Regarding References to Resources and Reserves"), and (x) plans for capital management, revenue, cash generation and profits are forward-looking statements.

Because they are forward-looking, they should be evaluated in light of important risk factors and uncertainties.

These risk factors and uncertainties include, but are not limited to, (i) our ability to raise additional capital in the future and continue as a going concern, (ii) the spot price and longterm contract price of uranium and lithium, (iii) risks associated with our foreign operations, (iv) risks associated with URI expanding its business into lithium, (v) competition from more experienced or better capitalized companies, (vi) operating conditions at our projects, (vii) government and tribal regulation of the uranium industry and the nuclear power industry, (viii) world-wide lithium and uranium supply and demand, (ix) maintaining sufficient financial assurance in the form of sufficiently collateralized surety instruments, (x) unanticipated geological, processing, regulatory and legal or other problems we may encounter, including in Turkey and in expanding into the lithium business, (xi) the ability of URI to enter into and successfully close acquisitions or other material transactions, including the transaction with Laramide Resources Ltd., (xii) the fact that NI 43-101 and JORC Code reports describe various types of "resources" which are not recognized by the SEC, inferred resources are the lowest standard of resource allowed under NI 43-101 standards and may not gualify as "mineralized material" under SEC staff positions, "reserves" are defined differently by the SEC and under NI 43-101 standards (see "Cautionary Note Regarding References to Resources and Reserves"), (xiii) timely receipt of recovery and other permits from regulatory agents, and (xiv) other factors which are more fully described in our Annual Report on Form 10-K, Quarterly Reports on Form 10-Q, and other filings with the SEC. Should one or more of these risks or uncertainties materialize, or should any of the underlying assumptions prove incorrect, actual results may vary materially from those currently anticipated. In addition, undue reliance should not be placed on forward-looking

statements. Except as required by law, URI disclaims any obligation to update or publicly announce any revisions to any of the forward-looking statements contained in this presentation.



CAUTIONARY NOTE REGARDING REFERENCES TO RESOURCES AND RESERVES

URI discloses mineral resources, including inferred resources, pursuant to the Canadian Institute of Mining, Metallurgy and Petroleum Standards (CIM Standards) for reporting mineral resources and reserves, and Canadian National Instrument 43-101 (NI 43-101).). In the instance of the Temrezli, Turkey project mineral resources are reported within the context of the 2012 edition of the "Australian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves" (the JORC Code). Investors are cautioned that the requirements and terminology of NI 43-101, the CIM Standards, and the JORC Code differ significantly from the requirements and terminology of the SEC set forth in the SEC's Industry Guide 7 ("SEC Industry Guide 7"). Accordingly, the Company's disclosures regarding mineralization may not be comparable to similar information disclosed by the Company in the reports it files with the SEC. Without limiting the foregoing, while the terms "mineral resources," "inferred resources," "indicated resources" and "measured mineral resources" are recognized and required by NI 43-101 and the CIM Standards, they are not recognized by the SEC and are not permitted to be used in documents filed with the SEC by companies subject to SEC Industry Guide 7. Mineral resources which are not mineral reserves do not have demonstrated economic viability, and investors are cautioned not to assume that all or any part of a mineral resource will ever be converted into reserves. Further, inferred resources have a great amount of uncertainty as to their existence and as to whether they can be mined legally or economically. It cannot be assumed that all or any part of the inferred resources will ever be upgraded to a higher resource category. Under Canadian rules, estimates of inferred mineral resources may not form the basis of a feasibility study or prefeasibility study, except in rare cases. The SEC normally only permits issuers to report mineralization that does not constitute SEC Industry Guide 7 compliant "reserves" as in-place tonnage and grade without reference to unit amounts. In addition, the NI 43-101, CIM Standards and the JORC Code definition of a "reserve" differ from the definition in SEC Industry Guide 7. In SEC Industry Guide 7, a mineral reserve is defined as a part of a mineral deposit which could be economically and legally extracted or produced at the time the mineral reserve determination is made, and a "final" or "bankable" feasibility study is required to report reserves, the three-year historical price (or in certain circumstances, a contract price) is used in any reserve or cash flow analysis of designated reserves and the primary environmental analysis or report must be filed with the appropriate governmental authority. URI discloses non-reserve mineralized material that is considered too speculative geologically to be categorized as reserves under SEC Industry Guide 7. Estimates of non-reserve mineralized material are subject to further exploration and development, are subject to many risks and highly speculative, and may not be converted to future reserves of URI. Investors are cautioned not to assume that all or any part of such nonreserve mineralized material exists, or is economically or legally extractible. Mineralized material that is not reserves does not have any demonstrated economic viability.



COMPETENT PERSON STATEMENTS

Technical information in this release is based on data reviewed by Dean T. Wilton, who is Chief Geologist and Vice President of Uranium Resources, Inc. Mr. Wilton is a "Qualified Person" as defined by Canadian National Instrument 43-101, and a "Competent Person" as defined in the 2012 Edition of the "Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves" (JORC Code). He is a Certified Professional Geologist (CPG-7659), as designated by the American Institute of Professional Geologists, and is a Member of the Australian Institute of Geoscientists (MAIG #6384). Mr. Wilton has more than 40 years of exploration and mining experience, including a sufficient level of experience that is relevant to the evaluation of the styles of mineral deposits relating to this document. Mr. Wilton consents to the inclusion in this release of the matters based on their information in the form and context in which they appear.

Information in this presentation which relates to the Temrezli, Turkey Project's Mineral Resources and Exploration Results is based on information compiled by Mr Dimitry Pertel and Mr Robert Annett, who are Members of the Australian Institute of Geosciences ("AIG"). Mr Pertel is employed by CSA Global Pty Ltd and Mr Annett was a nonExecutive Director of Anatolia Energy Ltd prior to its acquisition by Uranium Resources, Inc. Mr Pertel and Mr Annett each have over 20 years of exploration and mining experience in a variety of mineral deposit styles, and have sufficient experience which is relevant to the style of mineralisation and type of deposit under consideration and to the activity which he is undertaking to qualify as a Competent Person as defined in the 2004 Edition of the "Australasian Code for reporting of Exploration Results, Mineral Resources and Ore Reserves". Mr Pertel and Mr Annett consent to inclusion in this presentation of the matters based on their information in the form and context in which it appears.



DISCLOSURE REGARDING FOREIGN ESTIMATES

URI wishes to confirm that the information reported in relation to the URI Mineral Resources, exclusive of the Temrezli, Turkey uranium project, are on the basis of a "foreign estimates" (Foreign Estimate) and as such are not reported in accordance with the JORC Code. The following additional information is provided in accordance with Listing Rule 5.12.

The information provided in relation to Foreign Estimates was extracted from URI's website and various filings with the SEC (USA). URI discloses Mineral Resources (exclusive of the Temrezli, Turkey uranium project), including inferred resources, pursuant to the CIM Standards and Canadian National Instrument NI 43-101.

URI believes that the categories of mineralisation reported are similar to the JORC Code (2012) classification. The Foreign Estimates in their current form are considered to be accurate representations of the available data, and are the most recent Resource Statements by URI.

URI considers the Foreign Estimates to be material to URI. URI also believes that the Foreign Estimates are relevant to shareholders as they provide an indication of the current estimated mineralisation under the control of URI.

URI believes that the Foreign Estimates are sufficiently reliable and consistent with estimation methodologies commonly used at the time of their estimation. URI reported the Foreign Estimates and has been involved in the evaluation of these deposits. URI has significant experience in uranium exploration and the production of uranium from its uranium assets the Untied States, and files all necessary information relating to their activities with the governing authorities (SEC).

Information relating to the key assumptions, mining and processing parameters, and methods used to prepare the Foreign Estimates are documented in a number of historic NI 43-101 reports held by URI, and various filings with the SEC.

Cautionary Statement

The foreign estimates of mineral resources and reserves in this presentation are not reported in accordance with the Australasian JORC Code. A competent person has not done sufficient work to classify the foreign estimates as mineral resources or ore reserves in accordance with the JORC Code but URI notes the close similarity of the Canadian NI 43-101 and JORC classification systems. It is uncertain that following evaluation and/or further exploration work that the foreign estimates will be able to be reported as mineral resources or ore reserves in accordance with the JORC Code. This will require new estimates and future reporting under JORC (2012) after completion of the merger.

URI'S ENERGY METALS STRATEGY

URI IS EXPANDING ITS POSITION IN THE GREEN ENERGY METALS SECTOR:

- <u>We have the Nina Lithium Exploration Project</u> in Nevada
- <u>We have a deep pool of in-house Exploration</u>, Development and Operations Expertise

URI RETAINS LEVEREAGE TO THE RISING URANIUM PRICE:

- <u>We have the **Temrezli Uranium Project**</u> Near term, low cost production ready for development in Turkey
- <u>We have</u> one of the **Largest Uranium Mineralization** bases in the USA
- <u>We have 2 Licensed Uranium Processing Facilities in South Texas</u>



BOARD OF DIRECTORS

Christopher M. Jones President and CEO Interim Chairman	CEO since 2013; over 30 years of industry experience and a licensed professional engineer.
Marvin K. Kaiser Director	More than 40 years of industry experience, including EVP, Chief Administrative Officer and CFO at The Doe Run Co.
Patrick Burke Director	A corporate lawyer with more than 20 years experience in mergers and acquisitions, and a detailed understanding of ASX, ASIC and Corporations law in Australia.
Tracy A. Stevenson Director	Founding member of Bedrock Resources, a private financial advisory firm focused on natural resource businesses. Former Global Head of Business Process Improvements at Rio Tinto.



OUTSTANDING LEADERSHIP TEAM

Christopher M. Jones, President, CEO and Director	 Joined in 2013; more than 30 years of industry experience; licensed Professional Engineer (US and Canada) B.S. in Mining Engineering from South Dakota School of Mines and an MBA from Colorado State University
Jeffrey L.Vigil, VP Finance and CFO	 Joined in June 2013; more than 30 years of financial experience, including 20 years of mining background with 10 years in the uranium sector B.S. in Accounting from the University of Wyoming; licensed CPA
Ted Wilton, VP, Chief Geologist	 Joined in April 2012; more than 40 years of industry experience; Certified Professional Geologist B.G.S., Geology with an Engineering minor from New Mexico Institute of Mining & Technology
Dain A. McCoig, VP, South Texas Operations	 Joined in 2004; experienced in all phases of ISR development and production; licensed Professional Engineer in Texas Managed design and construction of Rosita Facility in Texas B.S. in Mechanical Engineering from Colorado School of Mines
Cevat Er General Manager - Turkey	 Joined in 2015. Founder of SRK Ankara, with 30 years of Turkish mining and environmental experience M.Sc. from University of Arizona, and B.S. Geological Engineering
John W. Lawrence, General Counsel and Corporate Secretary	 Joined in 2012; more than 30 years of experience in law and licensing across nuclear fuel cycle B.S. in Nuclear Engineering from Purdue University and a J.D. from Catholic University, Columbus School of Law



URI — TRANSFORMED UNDER THIS LEADERSHIP

- Annual cash expenditures reduced over 35% since end of 2012
- Reclamation work accelerated in Texas
- M&A executed to rationalize properties and bring forward uranium production in time
- New Energy Metals growth focus
 - Lithium in Nevada, USA



CORPORATE SNAPSHOT

Shares outstanding ¹	9.4 million
Options/Warrants ¹	0.8 million
Share Price	US\$1.38 A\$ 1.71
Market Capitalisation	US\$11.8 million A\$15.5 million
Cash and Equivalents (8/10/2016) ²	US\$1.2 million
Sale Proceeds from LOI ³	\$12.5 million
Convertible Note ⁴	US\$8.0 million

High Correlation to Uranium Price



¹ Shares outstanding are as of 10 August 2016.

2 Does not include US\$3.9 million in restricted cash, nor does it include any cash from recently announced LOI with Laramide Resources Ltd.

HIGH TRADING LIQUIDITY

3 Subject to the successful closing of recently announced agreement. Closing is currently anticipated to take place in the second half of 2016.

⁴ 10% Convertible Loan with RCF, matures 31 December 2016, and is convertible into 0.256m shares at US\$31.20 per share at RCF's election.



URI'S ENERGY METALS STRATEGY – CAPITALIZING ON THE NEAR <u>AND</u> THE LONGER TERM

WHY LITHIUM?

- Great real-time fundamentals
- The green economy needs lithium batteries right now
- Lithium demand is forecasted to grow 700% over the next ten years*
- Supply is lagging demand*
- URI has unparalleled in-house expertise in production of metals from groundwater
- URI is developing a portfolio of Lithium projects to take advantage of this expertise

WHY URANIUM?

- Great long term fundamentals
- The global nuclear fleet is expected to grow more than 35% over the next 10 years**
- Long term supply lags long term demand**
- URI's expertise is deep and experienced
- URI has a strong portfolio of projects in the US and Turkey

*Bloomberg



LITHIUM SUPPLY, DEMAND AND PRICING

- Global Battery demand is expected to rise 70% per year over the next ten years*
- Lithium batteries account for 35% of demand*
- Transportation batteries alone account for an increase in Lithium Carbonate (LCE) demand increase from 25 kt/yr in 2015 to a forecasted 205 kt/yr in 2025*
- A dramatic fall in lithium battery costs from \$900/KwH to \$225/Kwh is driving this growth.*
- Brine producers are in the lowest quartile of cost





THE NINA LITHIUM PROJECT



- Located within 25 miles of the only producing lithium brine project in the US
- 4600 acres with good highway and power access
- Surface sampling indicates lithium ranging from 70-124 ppm in brine, and 98-176 ppm in sediments
- Exploration at depth can result in a JORC compliant resource report for less than \$700K over twelve months





GLOBAL DEMAND FOR URANIUM IS GROWING

- More reactors are under construction or ordered today than ever!
- Governments around the world are focused on carbon reduction The only base load solution is nuclear power
- There are 393 operating nuclear power facilities around the world
- China, India, Russia and Korea are building or have ordered 148 new reactors
- China alone has 25 reactors currently under construction
- China consumes 19Mlbs per year, and is forecast to grow to 73Mlbs by 2030
- Current Global annual consumption of Uranium is 175Mlbs
- Current uranium prices do not reflect this growing demand!



Global Reactor Fleet



PIPELINE OF URANIUM PROJECTS



URI expects to dismantle and ship the Rosita processing plant equipment, which is currently on standby, to the Temrezli Project for synergistic savings. Temrezli's target production date is based on the Development Case as presented in the announcement of Anatolia's Pre-Feasibility Study on February 16, 2015.
 URI currently expects to close a transaction with Laramide Resources for the sale of Churchrock and Crownpoint properties in second half of 2016.



TEMREZLI PROJECT

- Long life, low cost project, nearing development decision
- Pre-Feasibility completed February 2015:
 - Average annual production of 800,000 pounds of uranium over 12 years
 - Average cash operating costs of US\$16.89/ lb U₃O₈
 - Free cash flow of over US\$345M over life of mine
 - Lowest quartile costs
- Permitting is underway
- Mineralization below the water table and generally less than 200m deep
- Potential for resource extensions and additions
- Upside from Sefaatli exploration property adding a centralized development plan for future discoveries in the region



CATEGORY	TONNES ('000s)	GRADE (ppm U ₃ 0 ₈)	U ₃ 0 ₈ (Mlbs)
Measured	2,008	1,378	6.1
Indicated	2,178	1,080	5.2
Inferred*	1,020	888	2.0
TOTAL RESOURCE	5,206	1,157	13.3

* See Cautionary Note Regarding References to Resources and Reserves.



MID-TERM ISR POTENTIAL IN SOUTH TEXAS

- URI's Texas landholdings total 14,000 acres (5,700 hectares)
- All projects are located near our existing processing infrastructure
- Our Kingsville Dome facility is on standby, ready to restart upon strong uranium prices
- Roll-Front mineralization in sandstones amenable to in-situ recovery
- Acquired historic resources data of 1.3M pounds U₃O₈ and logs from over 2,000 drill holes in Butler Ranch data set¹



THE URI INVESTMENT OPPORTUNITY

URI IS EXPANDING ITS LEVERAGE TO GREEN ENERGY DEVELOPMENT AND HIGH LITHIUM PRICES

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QUESTIONS?



Appendices



COMBINED MINERAL RESERVES & RESOURCES

In Place Reserves in South Texas ^{1,2} (12/31/2015)				
Property	Short Tons	<i>Grade</i> (% U₃Oଃ)	In-Place Pounds	Recovery Method
Kingsville Dome	35,000	0.07	50,000	ISR
Rosita	384,000	0.08	624,000	ISR
Total	419,000	0.08	674,000	

Footnotes to the Reserves table:

1. The Company estimates a 65% recovery rate for ISR methods and used a price assumption of \$53.58 per uranium pound, 2. Amounts have been rounded.

Non-Reserve Mineralized Material					
Property	Short Tons (millions)	Grade (% U₃Oଃ)	Recovery Method		
Temrezli Project, Turkey ^ª					
Measured & Indicated	4.6	0.13	ISR		
Inferred	1.1	0.09	ISR		
US Projects					
Cebolleta ³ Inferred	5.6	0.17	Conventional		
Juan Tafoya ³ Inferred	4.2	0.15	Conventional/ISR		
Butler Ranch ² (Historical)	0.4	0.15	ISR		
Ambrosia Lake (Historical)	0.7	0.17	Conventional/ISR		
Nose Rock (Historical)	7.5	0.15	Conventional		
West Largo (Historical)	2.8	0.30	Conventional		

Footnotes to the Mineralized Material table:

I.Investors are cautioned not to assume that all or any part of such nonreserve mineralized material exists, or is economically or legally extractible. See "Cautionary Note Regarding References to Resources and Reserves" and other disclosures on slides 3 and 4. Amounts have been rounded.

2.URI acquired historic resources data as part of a mineral data set of drill logs and other geological information as announced in a July 7, 2015 news release.

3.Each project's Canadian National Instrument 43-101 compliant Technical Report on resources is available on the Company's website. Classified as Inferred Resources under the Canadian Institute of Mining, Metallurgy and Petroleum Definition Standards.

a. JORC compliant resources



CONTACT DETAILS

Christopher Jones President and CEO Uranium Resources, Inc.

Tel: 303-531-0470 Email: <u>info@uraniumresources.com</u>

Jeff Vigil VP Finance and CFO Office: 303-531-0470

www.uraniumresources.com